COST ELEMENTS	UNIT	UNIT PRICE	ШС		Segments	101
				. 101		-101
Historian Cont				isco to San		co Airport to
Highway Cost				o Airport		ood City
Main Line	<u> </u>		Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
Length of Highway Pavement-AC	km	N/A \$48	18.1 43486.9	See Items 3-6 \$2,106,403	22.2 53234.5	See Items 3-6
4 Pavement-PCC	m2 m2	\$65	86973.9	\$5,653,302	106469.0	\$2,578,551 \$6,920,484
5 Separate Aerial Structure	m2	\$1,346	0.0	\$5,055,502		\$0,920, 1 01 \$0
6 Earthwork	m3	\$1,510	130460.8	\$853,181	159703.5	\$1,044,421
Other	1113	Ψ,	150 100.0	φουσή101	1557 0515	ψ1/0 1 1/ 121
1 Overhead Signs	ea	\$20,000	34	\$680,000	20	\$400,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	18.1	\$21,392,044		\$26,187,053
3 Traffic Handling	km	\$347,968	18.1	\$6,305,024		\$7,718,289
4 Miscellaneous Costs	km	\$559,234	18.1	\$10,133,074	22.2	\$12,404,393
5 City Street Relocation/Reconstruction	km	\$329,327	18.1	\$5,967,254	22.2	\$7,304,809
6 Removals	km	\$323,113	18.1	\$5,854,665		\$7,166,983
7 Surveillance, Control, & Communications	km	\$124,274	18.1	\$2,251,794	22.2	\$2,756,532
Interchange (includes structure, right-of-wa	ay, and m	obilization)				
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	3	\$532,575,000	2	\$355,050,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000		\$70,830,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	1	\$13,040,000		\$39,120,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
5 Urb Overcrossing Bridge Modification	ea	\$200,000	2	\$0 \$36,400,000	0	\$U #10 200 000
6 Sub Overcrossing Full Interchange Replacement 7 Sub Overcrossing Ramp Modification	ea ea	\$18,200,000 \$10,340,000	1	\$36,400,000 \$10,340,000	1	\$18,200,000 \$10,340,000
Sub Overcrossing Rainp Hounication Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	_	\$10,540,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$9,010,000	0	\$0 \$0
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0		\$0
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0		\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	1	\$900,000
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	6	\$88,950,000		\$0
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	14	\$12,600,000		\$900,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	0	\$0
20 Urb At-Grade Interchange Modification 21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0		\$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000 \$3,100,000	5 1	\$15,500,000 \$3,100,000		\$6,200,000 \$0
Utility Relocation	Са	\$3,100,000	1	\$3,100,000	U	φ0
1 Major Utility relocations - Urban	km	\$758,511	2.9	\$2,170,088	13.3	\$10,094,744
2 Major Utility relocations - Suburban	km	\$406,345	14.3	\$5,812,736		\$3,605,266
3 Major Utility relocations - Undeveloped	km	\$11,919	1.0	\$3,612,730		\$5,005,200
Right-of-Way Items (Interchange Right-of-			2.0	Ψ11/30/	0.0	Ψ0
1 Right-of-way - Urban	Hectares	\$3,499,093	2.1	\$7,207,808	9.6	\$33,529,043
2 Right-of-way - Suburban	Hectares	\$1,166,364	10.3	\$12,013,014		\$7,450,898
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.7	\$200,217		\$0
Environmental Mitigation		. ,		, <i>,</i>	<u>"</u>	<u> </u>
Environmental Mitigation (3% of Construction Costs)			\$24,528,478		\$17,979,946
Program Implementation Costs				+= 1/2=2/ 2		4=1/010/010
Program Implementation Costs (25.5% of Total Cos	t and Procu	rement)		\$219,699,190		\$167,864,310
Contingencies				4 ==3/033/130		420.70017510
Contingencies (25% of Total Construction Cost)				\$215,391,362		\$164,572,853
Total Construction				\$817,615,933		\$599,331,526
Total Construction and Right of Way				φυ17,013,933		φυσσ,υυτ,υ20
				#0C1 FCF 4F0		#CE0 201 442
(Includes Environmental Mitigation)				\$861,565,450		\$658,291,413
Grand Total				\$1,296,656,002		\$990,728,576

	COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
				IIS	-101	T-:	880
Highway (Cost				City to I-880		o San Jose
Main Line				Unit	Unit Cost	Unit	Unit Cost
	f additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
	th of Highway	km	N/A	31.6	See Items 3-6	1.4	See Items 3-6
3 Paver		m2	\$48	75903.4	\$3,676,580	3397.3	\$164,557
	ment-PCC	m2	\$65	151806.9	\$9,867,447	6794.6	\$441,649
5 Separ	ate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earth	work	m3	\$7	227710.3	\$1,489,169	10191.9	\$66,653
Other							
1 Overh	nead Signs	ea	\$20,000	44	\$880,000	6	\$120,000
	age, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	31.6	\$37,338,334	1.4	\$1,671,196
	c Handling	km	\$347,968	31.6	\$11,004,983	1.4	\$492,563
	llaneous Costs	km	\$559,234	31.6	\$17,686,579	1.4	\$791,619
	Street Relocation/Reconstruction	km	\$329,327	31.6	\$10,415,430	1.4	\$466,176
6 Remo		km	\$323,113	31.6	\$10,218,913	1.4	\$457,380
	illance, Control, & Communications	km	\$124,274	31.6	\$3,930,351	1.4	\$175,915
	ge (includes structure, right-of-wa						1.0
	Freeway to Freeway Interchanges	ea	\$177,525,000	2	\$355,050,000	0	\$0
	Overcrossing Full Interchange Replacement	ea	\$23,610,000	4	\$94,440,000	0	\$0
	Overcrossing Ramp Modification	ea	\$13,040,000	3	\$39,120,000	0	\$0
	Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0
	Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
	Overcrossing Full Interchange Replacement	ea	\$18,200,000	6	\$109,200,000	1	\$18,200,000
	Overcrossing Ramp Modification	ea	\$10,340,000 \$9,610,000	5	\$51,700,000 \$9,610,000	0	\$10,340,000
	Overcrossing Bridge Replacement Overcrossing Bridge Modification	ea ea	\$9,610,000	0	\$9,610,000	0	\$0 \$0
	Overcrossing Bridge Modification Overcrossing Full Interchange Replacement	1	\$16,170,000	0	\$0 \$0	0	\$0 \$0
	Overcrossing Full Interchange Replacement Overcrossing Ramp Modification	ea ea	\$10,170,000	0	\$0 \$0	0	\$0 \$0
	Overcrossing Ramp Modification Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0 \$0	0	\$0 \$0
	Overcrossing Bridge Medification	ea	\$200,000	0	\$0 \$0	0	\$0
	Indercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	2	\$40,100,000	1	\$20,050,000
	reeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	1	\$900,000
	Indercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	0	\$0
	reeway Bridge Widening (No Interchange)	ea	\$900,000	3	\$2,700,000	2	\$1,800,000
	Jndercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0
	Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
	t-Grade Interchange Modification	ea	\$3,100,000	2	\$6,200,000	0	\$0
	At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utility Rel					· .		<u> </u>
	Utility relocations - Urban	km	\$758,511	15.8	\$11,994,507	0.5	\$357,902
2 Major	Utility relocations - Suburban	km	\$406,345	15.8	\$6,425,629	0.9	\$383,466
	Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	0.0	\$0
Right-of-\	Way Items (Interchange Right-of-V	Vay cost		<u>'</u>	·		,
1 Right	-of-way - Urban	Hectares	\$3,499,093	11.4	\$39,838,982	0.3	\$1,188,747
	-of-way - Suburban	Hectares	\$1,166,364	11.4	\$13,279,661	0.7	\$792,498
3 Right-	-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	0.0	\$0
Environme	ental Mitigation						
Environm	nental Mitigation (3% of Construction Costs)				\$25,306,738		\$1,706,372
Program 1	Implementation Costs			·			
	Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$235,105,742		\$15,444,507
Continger			/		,,,		,==, : : :,==,
	encies (25% of Total Construction Cost)			I	\$230,495,826		\$15,141,674
Total Const							
	ruction and Right of Way				\$843,557,923		\$56,879,076
					1001 222 23		100
_	nvironmental Mitigation)				\$921,983,303		\$60,566,694
Grand Tota	ll .				\$1,387,584,871		\$91,152,875

COS	T ELEMENTS	UNIT	UNIT PRICE		Highway	Segments	
				IIS	-101	IIS	-101
Highway Cost					e to Gilroy		o SR-152
Main Line				Unit	Unit Cost	Unit	Unit Cost
	anes in both directions	00	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highwa		ea km	N/A	50.2	See Items 3-6	2.3	See Items 3-6
3 Pavement-AC	y	m2	\$48	120465.1	\$5,835,041	5594.7	\$270,995
4 Pavement-PCC		m2	\$65	240930.2	\$15,660,466		\$727,314
5 Separate Aerial St	ructure	m2	\$1,346	0.0	\$0		\$0
6 Earthwork		m3	\$7	361395.4	\$2,363,437	16784.2	\$109,764
Other			'		1 /2 2 2		1 7 -
1 Overhead Signs		ea	\$20,000	34	\$680,000	2	\$40,000
2 Drainage, Landsca	ape, Signing, Signals, & Lighting	km	\$1,180,605	50.2	\$59,259,067	2.3	\$2,752,149
3 Traffic Handling		km	\$347,968	50.2	\$17,465,830		\$811,160
4 Miscellaneous Cos	ts	km	\$559,234	50.2	\$28,070,084	2.3	\$1,303,650
5 City Street Reloca	tion/Reconstruction	km	\$329,327	50.2	\$16,530,161	2.3	\$767,705
6 Removals		km	\$323,113	50.2	\$16,218,271	2.3	\$753,220
	rol, & Communications	km	\$124,274	50.2	\$6,237,797	2.3	\$289,700
	des structure, right-of-wa	y, and m					
1 Major Freeway to	Freeway Interchanges	ea	\$177,525,000	2	\$355,050,000	0	\$0
	Full Interchange Replacement	ea	\$23,610,000	2	\$47,220,000		\$0
3 Urb Overcrossing		ea	\$13,040,000	1	\$13,040,000		\$0
4 Urb Overcrossing		ea	\$9,610,000	3	\$28,830,000		\$0
5 Urb Overcrossing		ea	\$200,000	2	\$400,000		\$0
3	Full Interchange Replacement	ea	\$18,200,000	4	\$72,800,000	1	\$18,200,000
7 Sub Overcrossing		ea	\$10,340,000	4	\$41,360,000		\$0
8 Sub Overcrossing		ea	\$9,610,000	3	\$28,830,000		\$9,610,000
9 Sub Overcrossing		ea	\$200,000	2	\$400,000	0	\$0
	Full Interchange Replacement	ea	\$16,170,000	1	\$16,170,000		\$0
11 Und Overcrossing		ea	\$9,350,000	1	\$9,350,000	0	\$0
12 Und Overcrossing		ea	\$9,610,000	1	\$9,610,000	0	\$0
13 Und Overcrossing		ea	\$200,000	0	\$0	0	\$0
	Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
	ge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	0	\$0
	Freeway Widening & Ramp Mod	ea	\$14,825,000	2	\$29,650,000	0	\$0
	ge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	0	\$0
	g Freeway Widening & Ramp Mod	ea	\$12,850,000	2	\$25,700,000		\$0 \$0
20 Urb At-Grade Inte	ge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	0	
21 Sub At-Grade Inte		ea	\$3,100,000	0	\$0 \$0	0	\$0 \$0
		ea	\$3,100,000 \$3,100,000	0	\$0 \$0	0	\$0 \$0
22 Und At-Grade Inte	erchange Modification	ea	\$3,100,000	U	\$ U	U	ÞU
1 Major Utility reloca	ations Urban	km	\$758,511	13.9	¢10 E7E 71E	0.0	\$0
2 Major Utility reloca		km	\$406,345	26.5	\$10,575,715 \$10,764,568		\$947,246
3 Major Utility reloca		km	\$11,919	9.8	\$116,333	0.0	\$947,240
	s (Interchange Right-of-\			5.0	\$110,555	0.0	φ0
1 Right-of-way - Urb	nan	Hectares	\$3,499,093	10.0	\$35,126,557	0.0	\$0
2 Right-of-way - Sul		Hectares	\$1,166,364		\$22,246,820		\$1,957,645
3 Right-of-way - Un		Hectares	\$291,591	7.0	\$2,049,049		\$0
Environmental Mit		ricctares	Ψ231/331	7.0	Ψ2/0 15/0 15	5.5	40
	ation (3% of Construction Costs)	1			\$26,207,603		\$1,097,487
Program Impleme					Ψ20,207,003		ψ1,057,107
	ation Costs (25.5% of Total Cost	and Drocu	rement)		\$244,600,284		\$10,107,699
	ation costs (23.5 % of Total cost	. and Frocu	i ement)		\$244,000,204		\$10,107,033
Contingencies (25%)	of Total Construction Cost)	T		T	#220 004 200	ı	40 000 F00
	or rotal Construction Cost)				\$239,804,200		\$9,909,508
Total Construction	ID: 14 CXV				\$873,586,770		\$36,582,901
Total Construction an	· · · · · · · · · · · · · · · · · · ·						
(Includes Environmen	ital Mitigation)				\$959,216,799		\$39,638,034
Grand Total					\$1,443,621,282		\$59,655,241

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
Highway Cost				-152 1 to I-5		-152 SR-99
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	65.7	See Items 3-6	69.0	See Items 3-6
3 Pavement-AC	m2	\$48	157711.0	\$7,639,144	165484.9	\$8,015,691
4 Pavement-PCC	m2	\$65	315422.1	\$20,502,435	330969.8	\$21,513,037
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	473133.1	\$3,094,174	496454.7	\$3,246,691
Other						
1 Overhead Signs	ea	\$20,000	16	\$320,000	88	\$1,760,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	65.7	\$77,581,036	69.0	\$81,405,144
3 Traffic Handling	km	\$347,968	65.7	\$22,865,990	69.0	\$23,993,095
4 Miscellaneous Costs	km	\$559,234	65.7	\$36,748,912	69.0	\$38,560,331
5 City Street Relocation/Reconstruction	km	\$329,327	65.7	\$21,641,026	69.0	\$22,707,751
6 Removals	km	\$323,113	65.7	\$21,232,705	69.0	\$22,279,303
7 Surveillance, Control, & Communications	km	\$124,274	65.7	\$8,166,425	69.0	\$8,568,963
Interchange (includes structure, right-of-wa	ny, and m	obilization)				
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	1	\$177,525,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	0	\$0
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	0	\$0
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	0	\$0	0	\$0
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	0	\$0
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	0	\$0
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	2	\$1,800,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	1	\$12,850,000	0	\$0
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	21	\$18,900,000
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000	8	\$24,800,000
22 Und At-Grade Interchange Modification	ea	\$3,100,000	6	\$18,600,000	36	\$111,600,000
Utility Relocation	1	#7F0 F41	0.0	10	0.0	+0
1 Major Utility relocations - Urban	km	\$758,511	0.0	\$0	0.0	\$0 \$4,120,245
2 Major Utility relocations - Suburban 3 Major Utility relocations - Undeveloped	km	\$406,345	11.0	\$4,450,359	10.1 58.8	\$4,120,345
·	km	\$11,919	54.8	\$652,719	58.8	\$701,008
Right-of-Way Items (Interchange Right-of-			0.01	+01	0.0	10
1 Right-of-way - Urban	Hectares	\$3,499,093	0.0	\$0 \$0,107,437	0.0	\$0 \$0,515,300
2 Right-of-way - Suburban 3 Right-of-way - Undeveloped	Hectares	\$1,166,364	7.9 39.4	\$9,197,427	7.3 42.3	\$8,515,398
	Hectares	\$291,591	39.4	\$11,496,781	42.3	\$12,347,325
Environmental Mitigation				140 :		
Environmental Mitigation (3% of Construction Costs))			\$13,190,098		\$17,144,891
Program Implementation Costs						
Program Implementation Costs (25.5% of Total Cost	t and Procu	rement)		\$120,756,328		\$155,423,513
Contingencies						
Contingencies (25% of Total Construction Cost)				\$118,388,557		\$152,375,993
Total Construction				\$439,669,923		\$571,496,358
Total Construction and Right of Way						
(Includes Environmental Mitigation)				\$473,554,229		\$609,503,972
Grand Total				\$712,699,115		\$917,303,478
Oranu iviai				4/ 14,055,115		4917,JUJ,470

	COST ELEMENTS	UNIT	UNIT PRICE		Highway		
				_			-80
					-80		to I-5
	way Cost			San Franci	sco to I-880		mento)
	Line			Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
	Length of Highway	km	N/A	14.7	See Items 3-6	139.5	See Items 3-6
-	Pavement-AC	m2	\$48	35378.4	\$1,713,646	334691.5	\$16,211,654
4		m2	\$65	70756.8	\$4,599,194	669383.1	\$43,509,901
	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
	Earthwork	m3	\$7	106135.3	\$694,098	1004074.6	\$6,566,400
Othe		1	+20,000	1.5	+220.000	450	+2.040.000
	Overhead Signs	ea	\$20,000	16 14.7	\$320,000	152 139.5	\$3,040,000
	Drainage, Landscape, Signing, Signals, & Lighting Traffic Handling	km km	\$1,180,605 \$347,968	14.7	\$17,403,312 \$5,129,397	139.5	\$164,641,085 \$48,525,794
	Miscellaneous Costs	km	\$559,234	14.7	\$8,243,674	139.5	\$77,987,883
5	•	km	\$329,327	14.7	\$4,854,608	139.5	\$45,926,197
	Removals	km	\$323,113	14.7	\$4,763,012	139.5	\$45,059,665
	Surveillance, Control, & Communications	km	\$124,274	14.7	\$1,831,928		\$17,330,641
	rchange (includes structure, right-of-wa				+-//		+ 2.7000/0.12
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	10	\$1,775,250,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	5	\$118,050,000
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	5	\$65,200,000
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
	Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6		ea	\$18,200,000	0	\$0	10	\$182,000,000
7	Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	9	\$93,060,000
8		ea	\$9,610,000	0	\$0	1	\$9,610,000
9	Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	6	\$97,020,000
	1 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	6	\$56,100,000
	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
	3 Und Overcrossing Bridge Modification	ea	\$200,000	2	\$400,000	1	\$200,000
	4 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	8	\$160,400,000
	5 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	2	\$1,800,000
	6 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	5	\$74,125,000	17	\$252,025,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	14	\$12,600,000	6	\$5,400,000
	8 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	1	\$12,850,000	5	\$64,250,000
	9 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	5	\$4,500,000
	0 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
	1 Sub At-Grade Interchange Modification 2 Und At-Grade Interchange Modification	ea	\$3,100,000 \$3,100,000	1	\$3,100,000 \$0	2	\$6,200,000 \$6,200,000
		ea	\$3,100,000	U	\$ U	2	\$6,200,000
	ty Relocation Major Utility relocations - Urban	km	\$758,511	1.2	\$894,498	38.3	\$29,037,119
	Major Utility relocations - Suburban	km	\$406,345	11.8	\$4,791,953	64.3	\$29,037,119
	Major Utility relocations - Undeveloped	km	\$11,919		\$21,085	36.9	\$440,001
	t-of-Way Items (Interchange Right-of-V			1.0	\$21,005	30.5	φττυ,υυ1
Rigil	Right-of-way - Urban	Hectares	\$3,499,093	0.8	\$2,971,017	27.6	\$96,444,921
	Right-of-way - Suburban	Hectares	\$1,166,364		\$9,903,391		\$53,963,230
	Right-of-way - Undeveloped	Hectares	\$291,591	1.3	\$371,377	26.6	\$7,750,037
	ronmental Mitigation	ricetares	Ψ251/351	2.0	ψ37 1/377	20.0	ψ, γ, σογοσ,
	nvironmental Mitigation (3% of Construction Costs)				\$10,784,112		\$103,030,876
	ram Implementation Costs				Ψ10,701,112		Ψ103,030,070
	ogram Implementation Costs ogram Implementation Costs (25.5% of Total Cost	and Drocu	rement)		\$97,792,577		\$942,365,655
	ingencies	unu FIUCU	remenc)		φ3/,/3∠,3//		250,005,055
	ontingencies (25% of Total Construction Cost)				¢0E 07E 07E		¢022 007 007
					\$95,875,075	•	\$923,887,897
	Construction				\$359,470,404		\$3,434,362,527
	Construction and Right of Way						
_	udes Environmental Mitigation)				\$383,500,301		\$3,695,551,589
Gran	d Total				\$577,167,953		\$5,561,805,142

	COST ELEMENTS	UNIT	UNIT PRICE		Highway	Segments	
				т-	880	T-	580
Hiah	way Cost				o I-238		5 (via I-238)
	Line			Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions	00	N/A	2	See Items 3-6	2	See Items 3-6
2		ea km	N/A N/A	22.3	See Items 3-6	84.8	See Items 3-6
3		m2	\$48	53431.1	\$2,588,076		\$9,852,887
4		m2	\$65	106862.3	\$6,946,047	406828.1	\$26,443,824
5		m2	\$1,346	0.0	\$0		\$0,113,62
6	•	m3	\$7	160293.4	\$1,048,279		\$3,990,833
Othe	Į.		,		1,72,2,7		1 - 7 7
	Overhead Signs	ea	\$20,000	44	\$880,000	54	\$1,080,000
2	_	km	\$1,180,605	22.3	\$26,283,781		\$100,063,197
3	Traffic Handling	km	\$347,968	22.3	\$7,746,799		\$29,492,311
4	Miscellaneous Costs	km	\$559,234	22.3	\$12,450,212	84.8	\$47,398,356
5	City Street Relocation/Reconstruction	km	\$329,327	22.3	\$7,331,791		\$27,912,365
6	Removals	km	\$323,113	22.3	\$7,193,456		\$27,385,717
7	, ,	km	\$124,274	22.3	\$2,766,714	84.8	\$10,532,968
	rchange (includes structure, right-of-wa						
-	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000		1 -77
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	3	\$70,830,000		\$94,440,000
3	<u> </u>	ea	\$13,040,000	3	\$39,120,000		\$39,120,000
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000		\$9,610,000
	Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6	J J	ea	\$18,200,000	2	\$36,400,000		\$18,200,000
7	Sub Overcrossing Ramp Modification Sub Overcrossing Bridge Replacement	ea	\$10,340,000	1	\$10,340,000		\$10,340,000
9	3 3 1	ea	\$9,610,000 \$200,000	1	\$9,610,000 \$200,000		\$0 \$0
	Sub Overcrossing Bridge Modification Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$200,000	3	\$48,510,000
	Und Overcrossing Ramp Modification	ea ea	\$9,350,000	0	\$0 \$0	3	\$28,050,000
	2 Und Overcrossing Ramp Flodification	ea	\$9,610,000	0	\$0 \$0	1	\$9,610,000
	B Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0 \$0		\$200,000
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	6	\$120,300,000		\$40,100,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	8	\$7,200,000		\$900,000
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	5	\$74,125,000		\$44,475,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	7	\$6,300,000		\$3,600,000
	Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	7	\$89,950,000
1	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	12	\$10,800,000
2	Urb At-Grade Interchange Modification	ea	\$3,100,000	2	\$6,200,000	0	\$0
	Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	2 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	y Relocation						
_	Major Utility relocations - Urban	km	\$758,511	12.5	1-7 -7		1 -7 -7
	Major Utility relocations - Suburban	km	\$406,345	9.8	1-1- 1		1 - 7 - 7 -
	Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	48.2	\$574,453
	t-of-Way Items (Interchange Right-of-V				12: :::::		1=
	Right-of-way - Urban	Hectares	\$3,499,093	9.0	. , ,		
	Right-of-way - Suburban	Hectares	\$1,166,364	7.0			. , ,
	Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	34.7	\$10,118,221
	ronmental Mitigation				146 :		
	vironmental Mitigation (3% of Construction Costs)				\$19,693,194		\$43,938,346
	ram Implementation Costs						
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$182,530,302		\$403,630,952
	ingencies						
Co	ontingencies (25% of Total Construction Cost)				\$178,951,277		\$395,716,620
Total	Construction				\$656,439,807		\$1,464,611,536
Total	Construction and Right of Way						
	ides Environmental Mitigation)				\$715,805,107		\$1,582,866,480
_	d Total				\$1,077,286,687		\$2,382,214,053
JI all	w = v vm=				Ψ1/07/1/200/007		42/002/21 1/00

COST ELEMENTS	UNIT	UNIT PRICE		Highway S		000
				880		880
				38 to	_	Newark to
Highway Cost			Fremon	t/Newark	US	-101
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	23.3	See Items 3-6	20.0	See Items 3-6
3 Pavement-AC	m2	\$48	55853.0	\$2,705,384	47965.2	\$2,323,319
4 Pavement-PCC	m2	\$65	111706.0	\$7,260,887	95930.4	\$6,235,477
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	167558.9	\$1,095,794	143895.6	\$941,042
Other						
1 Overhead Signs	ea	\$20,000	18	\$360,000	24	\$480,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	23.3	\$27,475,132	20.0	\$23,594,990
3 Traffic Handling	km	\$347,968	23.3	\$8,097,934	20.0	\$6,954,313
4 Miscellaneous Costs	km	\$559,234	23.3	\$13,014,536	20.0	\$11,176,574
5 City Street Relocation/Reconstruction	km	\$329,327	23.3	\$7,664,116	20.0	\$6,581,760
6 Removals	km	\$323,113	23.3	\$7,519,510	20.0	\$6,457,576
7 Surveillance, Control, & Communications	km	\$124,274	23.3	\$2,892,119	20.0	\$2,483,683
Interchange (includes structure, right-of-wa	ay, and m					
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	2	\$355,050,000	1	\$177,525,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	3	\$70,830,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	3	\$39,120,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	2	\$36,400,000	2	\$36,400,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	2	\$20,680,000	2	\$20,680,000
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	2	\$19,220,000	1	\$9,610,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	1	\$200,000	1	\$200,000
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	1	\$20,050,000	2	\$40,100,000
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	0	\$0
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	3	\$44,475,000	0	\$0
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	0	\$0
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000 \$3,100,000	0	\$0 \$0	0	\$0 \$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	U	\$0	U	\$U
Utility Relocation	1 1	+750 544	4.4	+2 200 775	10.7	+0.004.035
Major Utility relocations - Urban Major Utility relocations - Suburban	km	\$758,511	4.4	\$3,309,775	10.7	\$8,084,925
	km	\$406,345	18.9 0.0	\$7,683,407	9.3	\$3,789,808
3 Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	0.0	\$0
Right-of-Way Items (Interchange Right-of-			2.4	+10.000.005	2.2	toc one no
1 Right-of-way - Urban	Hectares		3.1	\$10,993,205	7.7	\$26,853,556
2 Right-of-way - Suburban 3 Right-of-way - Undeveloped	Hectares	\$1,166,364	13.6	\$15,879,074	6.7	\$7,832,287
	Hectares	\$291,591	0.0	\$0	0.0	\$0
Environmental Mitigation	. 1					
Environmental Mitigation (3% of Construction Costs)			\$18,316,908		\$14,207,054
Program Implementation Costs						
Program Implementation Costs (25.5% of Total Cos	t and Procu	rement)		\$167,216,959		\$133,227,648
Contingencies						
Contingencies (25% of Total Construction Cost)				\$163,938,195		\$130,615,341
Total Construction				\$610,563,593		\$473,568,468
Total Construction and Right of Way				,		,
Includes Environmental Mitigation)				\$655,752,781		\$522,461,366
Grand Total				\$986,907,935		\$786,304,355
JI ANU TULAI				ZCE, 10E,00E¢		\$/00,30 4 ,33

COST ELEMENTS	UNIT	UNIT PRICE		Highway S		_
]	I-5		-5 cton to
Highway Cost				Stockton		SR-120
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	81.4	See Items 3-6	41.5	See Items 3-6
3 Pavement-AC	m2	\$48	195357.2	\$9,462,632	99669.5	\$4,827,750
4 Pavement-PCC	m2	\$65	390714.3	\$25,396,432	199338.9	\$12,957,031
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	586071.5	\$3,832,763	299008.4	\$1,955,441
Other		, ,				
1 Overhead Signs	ea	\$20,000	50	\$1,000,000	22	\$440,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	81.4	\$96,099,878	41.5	\$49,029,291
3 Traffic Handling	km	\$347,968	81.4	\$28,324,175	41.5	\$14,450,738
4 Miscellaneous Costs	km	\$559,234	81.4	\$45,520,995	41.5	\$23,224,401
5 City Street Relocation/Reconstruction	km	\$329,327	81.4	\$26,806,808	41.5	\$13,676,592
6 Removals	km	\$323,113	81.4	\$26,301,019	41.5	\$13,418,543
7 Surveillance, Control, & Communications	km	\$124,274	81.4	\$10,115,777	41.5	\$5,160,978
Interchange (includes structure, right-of-wa	ay, and m					
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	0	\$0
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	0	\$0
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	0	\$0
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	1	\$18,200,000	0	\$0
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	1	\$10,340,000	0	\$0
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0
9 Sub Overcrossing Bridge Modification	ea	\$200,000	1	\$200,000	0	\$0
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	3	\$48,510,000	1	\$16,170,000
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	0	\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	1	\$20,050,000	3	\$60,150,000
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	13	\$192,725,000	2	\$29,650,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	9	\$8,100,000	2	\$1,800,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	4	\$51,400,000	5	\$64,250,000
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	11	\$9,900,000	3	\$2,700,000
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utility Relocation						
1 Major Utility relocations - Urban	km	\$758,511	3.3	\$2,520,079	7.8	\$5,906,284
2 Major Utility relocations - Suburban	km	\$406,345	43.2	\$17,550,552	10.4	\$4,218,774
3 Major Utility relocations - Undeveloped	km	\$11,919	34.9	\$415,813	23.4	\$278,439
Right-of-Way Items (Interchange Right-of-	Way cost	not included)				
1 Right-of-way - Urban	Hectares	\$3,499,093	2.4	\$8,370,281	5.6	\$19,617,342
2 Right-of-way - Suburban	Hectares	\$1,166,364	31.1	\$36,271,217	7.5	\$8,718,819
3 Right-of-way - Undeveloped	Hectares	\$291,591	25.1	\$7,323,994	16.8	\$4,904,335
Environmental Mitigation						
Environmental Mitigation (3% of Construction Costs)			\$26,046,508		\$9,727,928
Program Implementation Costs						
Program Implementation Costs (25.5% of Total Cos	t and Procu	rement)		\$241,288,375		\$93,644,335
Contingencies		,		, , , ,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Contingencies (25% of Total Construction Cost)				\$236,557,231		\$91,808,171
Total Construction				\$868,216,923		\$324,264,262
Total Construction and Right of Way				φυυυ,210,323		φυ ζη,Ζυη,Ζ 02
· · · · · · · · · · · · · · · · · · ·				10.10.000.00		1007.000
(Includes Environmental Mitigation)				\$946,228,923		\$367,232,686
Grand Total				\$1,424,074,529		\$552,685,192

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
				-5 (CD 130		_
				SR-120		-5
lighway Cost				R-152		to SR-99
Main Line	1		Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	84.4	See Items 3-6	299.3	See Items 3-6
3 Pavement-AC 4 Pavement-PCC	m2	\$48	202472.9 404945.9	\$9,807,302	718246.3 1436492.7	\$34,790,126
5 Separate Aerial Structure	m2 m2	\$65 \$1,346	404945.9 0.0	\$26,321,481 \$0	1436492.7	\$93,372,023 \$0
6 Earthwork	m3	\$1,346	607418.8	\$3,972,369	2154739.0	\$14,091,461
Other	IIIJ	Ψ/	007 110.0	45,572,505	2131733.0	Ψ11,001,10.
1 Overhead Signs	ea	\$20,000	26	\$520,000	50	\$1,000,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	84.4	\$99,600,254	299.3	\$353,318,91
3 Traffic Handling	km	\$347,968	84.4	\$29,355,864	299.3	\$104,136,10
4 Miscellaneous Costs	km	\$559,234	84.4	\$47,179,068	299.3	\$167,361,59
5 City Street Relocation/Reconstruction	km	\$329,327	84.4	\$27,783,229	299.3	\$98,557,38
6 Removals	km	\$323,113	84.4	\$27,259,017	299.3	\$96,697,80
7 Surveillance, Control, & Communications	km	\$124,274	84.4	\$10,484,237	299.3	\$37,191,46
nterchange (includes structure, right-of-wa		obilization)	0	ψ10/ i0 i/20/	255.5	ψο, γιος
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	6	\$1,065,150,000	1	\$177,525,00
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	2	\$47,220,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	1	\$13,040,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	1	\$200,000
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	0	\$0	0	\$(
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	0	\$(
Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$(
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$(
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	3	\$48,510,000	11	\$177,870,00
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	10	\$93,500,000
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	5	\$48,050,000	11	\$105,710,000
13 Und Overcrossing Bridge Modification	ea	\$200,000	5	\$1,000,000	11	\$2,200,000
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$(
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$(
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	0	\$
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	8	\$102,800,000	1	\$12,850,00
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	7	\$6,300,000	8	\$7,200,00
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0,500,000	0	\$1,200,00
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0 \$0	0	ع ج
tility Relocation	L Ca	\$3,100,000	U	Φ 0	U	ب
	Luna	¢7E0 E11	0.0	±0	25.0	¢10 FC0 00
Major Utility relocations - Urban Major Utility relocations - Suburban	km km	\$758,511 \$406,345	0.0	\$0 \$0	25.8 0.0	\$19,568,89°
3 Major Utility relocations - Suburban 3 Major Utility relocations - Undeveloped	km	\$11,919	84.4	\$1,005,571	273.5	\$3,259,61
			04.4	\$1,005,571	2/3.3	\$3,239,01
ight-of-Way Items (Interchange Right-of-\ 1 Right-of-way - Urban			0.0	40	10.6	¢C4.00C.03:
2 Right-of-way - Suburban	Hectares	\$3,499,093	0.0	\$0 \$0	18.6	\$64,996,83
3 Right-of-way - Suburban	Hectares	\$1,166,364	0.0	1 1	0.0	\$L
	Hectares	\$291,591	60.7	\$17,711,788	196.9	\$57,413,85
nvironmental Mitigation	. T			t 17 010 050		±50.100.11
Environmental Mitigation (3% of Construction Costs))			\$47,213,952		\$50,108,11
rogram Implementation Costs					·	
Program Implementation Costs (25.5% of Total Cost	t and Procu	rement)		\$417,874,654		\$469,911,24
ontingencies						
Contingencies (25% of Total Construction Cost)				\$409,681,033		\$460,697,29
otal Construction				\$1,573,798,393		\$1,670,270,38
otal Construction and Right of Way				, , , , ,		., ., ., .,
ncludes Environmental Mitigation)				\$1,638,724,132		\$1,842,789,18
rand Total						
TANU TUTAL				\$2,466,279,819		\$2,773,397,72

	COST ELEMENTS	UNIT	UNIT PRICE		Highway	Segments	
				SI	R-99	SE	R-99
⊔iah	way Cost				SR-58		to to SR-120
	Line			Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions		N/A	2		2	See Items 3-6
	Length of Highway	ea km	N/A N/A	38.1	See Items 3-6 See Items 3-6	100.8	See Items 3-6 See Items 3-6
	Pavement-AC	m2	\$48	91320.3	\$4,423,334		\$11,714,989
	Pavement-PCC	m2	\$65	182640.5	\$11,871,635		\$31,441,455
	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	273960.8	\$1,791,636		\$4,745,062
Othe			,		. , ,	<u> </u>	, , ,
	Overhead Signs	ea	\$20,000	20	\$400,000	126	\$2,520,000
2	Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	38.1	\$44,922,163		\$118,974,190
3	Traffic Handling	km	\$347,968	38.1	\$13,240,216	100.8	\$35,066,077
4		km	\$559,234	38.1	\$21,278,919		\$56,356,195
	City Street Relocation/Reconstruction	km	\$329,327	38.1	\$12,530,919		\$33,187,537
	Removals	km	\$323,113	38.1	\$12,294,487	100.8	\$32,561,357
	Surveillance, Control, & Communications	km	\$124,274	38.1	\$4,728,649	100.8	\$12,523,599
	rchange (includes structure, right-of-wa		obilization)				
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	1	\$177,525,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0		\$165,270,000
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	7	\$91,280,000
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	2	\$19,220,000
5	ore ore ended in grant or the contract of the	ea	\$200,000	0	\$0	1	\$200,000
	Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	2	\$36,400,000		\$254,800,000
8	Sub Overcrossing Ramp Modification Sub Overcrossing Bridge Replacement	ea	\$10,340,000 \$9,610,000	1	\$10,340,000 \$9,610,000		\$144,760,000 \$57,660,000
	Sub Overcrossing Bridge Replacement Sub Overcrossing Bridge Modification	ea	\$200,000	1	\$9,610,000		\$1,200,000
	Und Overcrossing Full Interchange Replacement	ea ea	\$16,170,000	3	\$48,510,000		\$32,340,000
	Und Overcrossing Ramp Modification	ea	\$9,350,000	3	\$28,050,000		\$18,700,000
	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$10,700,000
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0		\$20,050,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000		\$3,600,000
	6 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	6	\$88,950,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	26	\$23,400,000
	B Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	1	\$12,850,000
	9 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	6	\$5,400,000
	Urb At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000		\$3,100,000
	1 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0		\$6,200,000
	2 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	6	\$18,600,000
	ty Relocation		40/200/000	-			4-0/000/000
	Major Utility relocations - Urban	km	\$758,511	7.1	\$5,411,521	20.2	\$15,287,631
	Major Utility relocations - Suburban	km	\$406,345	11.9	\$4,831,716		\$26,705,878
	Major Utility relocations - Undeveloped	km	\$11,919				\$177,564
Righ	t-of-Way Items (Interchange Right-of-V	Vay cost	not included)				
	Right-of-way - Urban	Hectares	\$3,499,093	5.1	\$17,974,019	14.5	\$50,776,882
2	Right-of-way - Suburban	Hectares	\$1,166,364	8.6	\$9,985,566	47.3	\$55,192,264
3	Right-of-way - Undeveloped	Hectares	\$291,591	13.7	\$3,994,226	10.7	\$3,127,561
Envi	ronmental Mitigation						
Er	nvironmental Mitigation (3% of Construction Costs)				\$13,892,909		\$45,790,996
Prog	ram Implementation Costs						
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$129,780,639		\$428,719,831
	ingencies						
	ontingencies (25% of Total Construction Cost)				\$127,235,921		\$420,313,559
	Construction				\$463,096,963		\$1,526,366,534
	Construction and Right of Way				+ .05,550,505		+=,320,500,551
	ides Environmental Mitigation)				\$508,943,684		\$1,681,254,237
_	<u> </u>						
Gran	d Total				\$765,960,244		\$2,530,287,627

	COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
				SP	2-99	SE	k-99
⊔iah	way Cost			_	o Modesto		to Merced
	Line			Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions	02	N/A	2	See Items 3-6	2	See Items 3-6
	Length of Highway	ea km	N/A N/A	23.3	See Items 3-6	62.8	See Items 3-6
	Pavement-AC	m2	\$48	56035.5	\$2,714,226	150666.6	\$7,297,928
	Pavement-PCC	m2	\$65	112071.0	\$7,284,617	301333.2	\$19,586,657
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	168106.6	\$1,099,375	451999.8	\$2,955,967
Othe	er					,	
	Overhead Signs	ea	\$20,000	20	\$400,000	54	\$1,080,000
2	Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	23.3	\$27,564,928	62.8	\$74,115,739
3	Traffic Handling	km	\$347,968	23.3	\$8,124,400	62.8	\$21,844,639
4		km	\$559,234	23.3	\$13,057,071	62.8	\$35,107,455
	City Street Relocation/Reconstruction	km	\$329,327	23.3	\$7,689,164	62.8	\$20,674,390
	Removals	km	\$323,113	23.3	\$7,544,085	62.8	\$20,284,307
	Surveillance, Control, & Communications	km	\$124,274	23.3	\$2,901,571	62.8	\$7,801,657
	rchange (includes structure, right-of-wa	<i></i>	obilization)	. 1		-	
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	0	\$0
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	3	\$70,830,000	1	\$23,610,000
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	2	\$26,080,000	0	\$0
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	3	\$28,830,000
	Urb Overcrossing Bridge Modification Sub Overcrossing Full Interchange Replacement	ea	\$200,000 \$18,200,000	0	\$0 \$0	2	\$400,000 \$72,800,000
	Sub Overcrossing Ramp Modification	ea ea	\$10,340,000	0	\$0 \$0	4	\$41,360,000
8	· .	ea	\$9,610,000	0	\$0 \$0	3	\$28,830,000
_	Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	2	\$400,000
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	3	\$48,510,000	1	\$16,170,000
	Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	0	\$10,170,000
	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
	B Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	9	\$180,450,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	7	\$6,300,000
	6 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	2	\$29,650,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	9	\$8,100,000
	8 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	4	\$51,400,000
	9 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	5	\$4,500,000
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
	1 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
	2 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	ty Relocation	l.	, , ,				·
	Major Utility relocations - Urban	km	\$758,511	14.0	\$10,625,896	24.5	\$18,562,810
2	Major Utility relocations - Suburban	km	\$406,345	0.0	\$0	26.6	\$10,809,090
3	Major Utility relocations - Undeveloped	km	\$11,919	9.3	\$111,319	11.7	\$139,509
Righ	t-of-Way Items (Interchange Right-of-V	Vay cost	not included)				
	Right-of-way - Urban	Hectares	\$3,499,093	10.1	\$35,293,228	17.6	\$61,655,177
	Right-of-way - Suburban	Hectares	\$1,166,364	0.0	\$0	19.2	\$22,338,832
	Right-of-way - Undeveloped	Hectares	\$291,591	6.7	\$1,960,735	8.4	\$2,457,271
	ronmental Mitigation						
Er	nvironmental Mitigation (3% of Construction Costs)				\$13,292,150		\$22,466,104
	ram Implementation Costs						
Pr	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$125,872,530		\$218,735,821
	ingencies						
	ontingencies (25% of Total Construction Cost)				\$123,404,441		\$214,446,883
	Construction				\$443,071,652		\$748,870,147
	Construction and Right of Way				+ 3/0, 2/332		7 3/0. 0/2 1/
	ides Environmental Mitigation)				\$493,617,765		\$857,787,532
_	d Total				\$742,894,736		\$1,290,970,235
Gran	น 1 บเสโ				\$/42,094,/3b		\$1,290,970,235

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
			CD	R-99	CD	1-99
Highway Cost			_			
Highway Cost Main Line				to SR-152		to Fresno
		21/2	Unit	Unit Cost	Unit	Unit Cost
No. of additional lanes in both directions Length of Highway	ea	N/A	24.6	See Items 3-6 See Items 3-6	2	See Items 3-6
3 Pavement-AC	km m2	N/A \$48	34.6 82956.6	\$4,018,219	53.7 128905.1	See Items 3-6 \$6,243,854
4 Pavement-PCC	m2	\$65	165913.2	\$10,784,360	257810.2	\$16,757,666
5 Separate Aerial Structure	m2	\$1,346	0.0	\$10,764,300	0.0	\$10,757,000
6 Earthwork	m3	\$7	248869.9	\$1,627,547	386715.4	\$2,529,023
Other		Τ.	2 .0003.3	¥1/02/70	3007 131 .	42/025/025
1 Overhead Signs	ea	\$20,000	16	\$320,000	46	\$920,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	34.6	\$40,807,924	53.7	\$63,410,861
3 Traffic Handling	km	\$347,968	34.6	\$12,027,599	53.7	\$18,689,517
4 Miscellaneous Costs	km	\$559,234	34.6	\$19,330,069	53.7	\$30,036,724
5 City Street Relocation/Reconstruction	km	\$329,327	34.6	\$11,383,263	53.7	\$17,688,293
6 Removals	km	\$323,113	34.6	\$11,168,485	53.7	\$17,354,552
7 Surveillance, Control, & Communications	km	\$124,274	34.6	\$4,295,571	53.7	\$6,674,828
Interchange (includes structure, right-of-wa			- 1	. , ,	<u> </u>	
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	0	\$0	1	\$177,525,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	3	\$70,830,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	3	\$39,120,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	1	\$18,200,000	5	\$91,000,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	4	\$41,360,000
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	6	\$57,660,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	6	\$1,200,000
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	2	\$32,340,000	3	\$48,510,000
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	1	\$9,350,000	2	\$18,700,000
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	1	\$200,000
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	1	\$20,050,000
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$(
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	4	\$59,300,000	1	\$14,825,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	1	\$900,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$(
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	4	\$3,600,000	1	\$900,000
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$(
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$(
Utility Relocation		, , ,		• .		
1 Major Utility relocations - Urban	km	\$758,511	0.0	\$0	10.7	\$8,148,001
2 Major Utility relocations - Suburban	km	\$406,345	16.0	\$6,482,508	30.9	\$12,549,37
3 Major Utility relocations - Undeveloped	km	\$11,919	18.6	\$221,846	12.1	\$144,045
Right-of-Way Items (Interchange Right-of-	Way cost	. ,		, , , , ,		
1 Right-of-way - Urban	Hectares	\$3,499,093	0.0	\$0	7.7	\$27,063,062
2 Right-of-way - Suburban	Hectares	\$1,166,364	11.5	\$13,397,212	22.2	\$25,935,434
3 Right-of-way - Undeveloped	Hectares	\$291,591	13.4	\$3,907,519	8.7	\$2,537,162
Environmental Mitigation		1/		1-11	2.7	, =,=== , 20.
Environmental Mitigation (3% of Construction Costs)			\$7,384,722		\$23,899,10
Program Implementation Costs	<u> </u>			ψ, ,50 1,, 22		¥25,055,10.
Program Implementation Costs (25.5% of Total Cos	t and Drocu	rement)		\$69,065,946		\$223,398,23
	t and Procu	rement)		\$05,005,546		\$223,398,23.
Contingencies				±67 744 701		1010 017 57
Contingencies (25% of Total Construction Cost)				\$67,711,711		\$219,017,87
Total Construction				\$246,157,392		\$796,636,74
Total Construction and Right of Way						
Includes Environmental Mitigation)				\$270,846,845		\$876,071,50
Grand Total						

	COST ELEMENTS	UNIT	UNIT PRICE		Highway	Segments	
				SE	R-99	SE	R-99
Hiah	way Cost				ulare/Visalia		alia to SR-58
Main				Unit	Unit Cost	Unit	Unit Cost
1		ea	N/A	2	See Items 3-6	2	See Items 3-6
2		km	N/A	74.7	See Items 3-6	110.8	See Items 3-6
3	·	m2	\$48	179179.7	\$8,679,036		\$12,883,401
4	Pavement-PCC	m2	\$65	358359.5	\$23,293,365	531958.7	\$34.577.317
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	537539.2	\$3,515,374	797938.1	\$5,218,318
Othe	r						
1	Overhead Signs	ea	\$20,000	42	\$840,000	72	\$1,440,000
2	Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	74.7	\$88,141,890	110.8	\$130,840,263
3	Traffic Handling	km	\$347,968	74.7	\$25,978,662	110.8	\$38,563,446
4		km	\$559,234	74.7	\$41,751,422	110.8	\$61,976,967
5	City Street Relocation/Reconstruction	km	\$329,327	74.7	\$24,586,948		\$36,497,547
6		km	\$323,113	74.7	\$24,123,044		\$35,808,914
7		km	\$124,274	74.7	\$9,278,094	110.8	\$13,772,659
	change (includes structure, right-of-wa	-					
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	2	\$355,050,000
2		ea	\$23,610,000	4	\$94,440,000	6	\$141,660,000
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	3	\$39,120,000	6	\$78,240,000
4	3 3 1	ea	\$9,610,000	0	\$0	1	\$9,610,000
5		ea	\$200,000	0	\$0	0	\$0
6	3 1	ea	\$18,200,000	2	\$36,400,000	7	\$127,400,000
7	Sub Overcrossing Ramp Modification	ea	\$10,340,000	1	\$10,340,000		\$62,040,000
8	Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	2	\$19,220,000
9	Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	2	\$400,000
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	2	\$32,340,000	3	\$48,510,000
	Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	3	\$28,050,000
	Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000		\$0
	Und Overcrossing Bridge Modification Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$200,000 \$20,050,000	0	\$0 \$40,100,000	0	\$0 \$20,050,000
	Urb Freeway Bridge Widening (No Interchange)	ea ea	\$20,030,000	1	\$900,000	2	\$1,800,000
	S Sub Undercrossing Freeway Widening & Ramp Mod		\$14,825,000	4	\$59,300,000	1	\$1,800,000
		ea				3	
	Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	3	\$2,700,000 \$0	1	\$2,700,000
	Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000 \$900,000			2	\$12,850,000
	Und Freeway Bridge Widening (No Interchange)	ea		2	\$1,800,000		\$1,800,000
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
	Sub At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000		\$3,100,000
	Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	y Relocation		1350 C · ·	24.5	110 070 077	a= =1	000 704 577
	Major Utility relocations - Urban	km	\$758,511		\$18,876,373		\$28,581,023
	Major Utility relocations - Suburban	km	\$406,345		\$13,146,046		\$20,715,238
	Major Utility relocations - Undeveloped	km	\$11,919	17.4	\$207,640	22.2	\$264,194
kign	t-of-Way Items (Interchange Right-of-V Right-of-way - Urban			17.0	#63 COC CET	37.4	#04.000.000
	Right-of-way - Suburban	Hectares	\$3,499,093		\$62,696,657		\$94,930,028
	Right-of-way - Suburban Right-of-way - Undeveloped	Hectares	\$1,166,364 \$201,501		\$27,168,551		\$42,811,581
	<u> </u>	Hectares	\$291,591	12.5	\$3,657,304	16.0	\$4,653,432
	ronmental Mitigation				#24 FF2 CCT		±40 F46 222
	vironmental Mitigation (3% of Construction Costs)				\$24,552,087		\$40,546,329
	ram Implementation Costs	1.5			1222	ı	122:
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$238,801,761		\$391,293,843
	ingencies						
	ntingencies (25% of Total Construction Cost)				\$234,119,373		\$383,621,414
Total	Construction				\$818,402,893		\$1,351,544,288
Total	Construction and Right of Way						
	des Environmental Mitigation)				\$936,477,492		\$1,534,485,657
_	d Total				\$1,409,398,626		\$2,309,400,914
JI all					Ψ1, 103,330,020		Ψ2,505, 100,51

QUANTITY WORKSHEET - Modal Alternative CAPITAL COST ESTIMATES CA HSRA PROGRAM EIR/EIS Bakersfield to Los Angeles

	UNIT	UNIT PRICE		Highway Segments				
				-5	7	:-5		
Highway Cost				to SR-14		to I-405		
Highway Cost Main Line					_			
1 No. of additional lanes in both directions	02	N/A	Unit 2	Unit Cost See Items 3-6	Unit 4	Unit Cost See Items 3-6		
2 Length of Highway	ea km	N/A	104.6	See Items 3-6	4.1	See Items 3-6		
3 Pavement-AC	m2	\$48	251041.4	\$12,159,844	0.0	\$0		
4 Pavement-PCC	m2	\$65	502082.9	\$32,635,387	58542.9	\$3,805,288		
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	106556.2	\$143,424,651		
6 Earthwork	m3	\$7	753124.3	\$4,925,247	17359.6	\$113,527		
Other	1115	Ψ,	73312 113	ψ 1/323/2 17	1733310	Ψ113/32/		
1 Overhead Signs	ea	\$20,000	38	\$760,000	2	\$40,000		
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	104.6	\$123,492,018	4.1	\$4,799,726		
3 Traffic Handling	km	\$347,968	104.6	\$36,397,647	4.1	\$1,414,656		
4 Miscellaneous Costs	km	\$559,234	104.6	\$58,496,219	4.1	\$2,273,554		
5 City Street Relocation/Reconstruction	km	\$329,327	104.6	\$34,447,773	4.1	\$1,338,871		
6 Removals	km	\$323,113	104.6	\$33,797,815	4.1	\$1,313,609		
7 Surveillance, Control, & Communications	km	\$124,274	104.6	\$12,999,160	4.1	\$505,234		
interchange (includes structure, right-of-wa			10 1.0	ψ12,555,100	1.1	4303,23		
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	4	\$710,100,000	2	\$355,050,000		
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$710,100,000	0	\$333,030,000		
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	0	\$0		
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0		
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0		
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	3	\$54,600,000	0	\$0		
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	3	\$31,020,000	0	\$(
8 Sub Overcrossing Rainp Hodincation 8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$31,020,000	1	\$9,610,000		
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$9,010,000		
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	3	\$48,510,000	0	\$0		
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	0	\$0		
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$C		
13 Und Overcrossing Bridge Modification	ea	\$200,000	1	\$200,000	0	\$C		
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0		
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0		
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	3	\$44,475,000	1	\$14,825,000		
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	3	\$2,700,000	2	\$1,800,000		
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	4	\$51,400,000	0	\$1,000,000		
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	1	\$900,000		
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$1,000,000	0	\$00,000		
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000	0	\$0		
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0		
Jtility Relocation	Cu	\$5,100,000	•	ΨΟ	<u> </u>	Ψ		
1 Major Utility relocations - Urban	km	\$758,511	0.0	\$0	0.0	\$0		
2 Major Utility relocations - Suburban		\$406,345	52.3	\$21,251,988	3.5	\$1,415,990		
3 Major Utility relocations - Undeveloped	km km	\$11,919	52.3	\$623,392	0.6	\$1,413,990		
			32.3	\$023,392	0.0	\$0,923		
Right-of-Way Items (Interchange Right-of-V			0.0	+0	0.0	1,		
1 Right-of-way - Urban 2 Right-of-way - Suburban	Hectares	\$3,499,093	0.0	\$0	0.0	\$(
3 Right-of-way - Suburban 3 Right-of-way - Undeveloped	Hectares	\$1,166,364	37.7	\$43,920,868	1.5	\$1,735,510		
	Hectares	\$291,591	37.7	\$10,980,215	0.2	\$72,313		
nvironmental Mitigation	T	T I						
Environmental Mitigation (3% of Construction Costs)				\$40,446,045		\$16,279,111		
rogram Implementation Costs								
Program Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$368,104,898		\$142,984,61		
ontingencies								
Contingencies (25% of Total Construction Cost)				\$360,887,155		\$140,180,99		
otal Construction	1			\$1,348,201,491		\$542,637,03		
otal Construction and Right of Way				ψ1/3 10/201/ 171		ψ3 12,037,03		
				#1 443 F40 C10		#ECO 733 00		
ncludes Environmental Mitigation)				\$1,443,548,619		\$560,723,965		
rand Total				\$2,172,540,671		\$843,889,56		

QUANTITY WORKSHEET - Modal Alternative CAPITAL COST ESTIMATES CA HSRA PROGRAM EIR/EIS Bakersfield to Los Angeles

	UNIT	UNIT PRICE		Highway Segments				
				-5		-5		
lighway Cost				Burbank		Los Angeles		
Main Line			Unit	Unit Cost	Unit	Unit Cost		
1 No. of additional lanes in both directions	ea	N/A	4	See Items 3-6	4	See Items 3-6		
2 Length of Highway	km	N/A	24.6	See Items 3-6	12.0	See Items 3-6		
3 Pavement-AC	m2	\$48	118215.1	\$5,726,056	57475.8	\$2,783,988		
4 Pavement-PCC	m2	\$65	236430.2	\$15,367,966	114951.6	\$7,471,851		
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0		
6 Earthwork	m3	\$7	354645.4	\$2,319,293	172427.3	\$1,127,632		
Other	1115	Ψ,	33 10 131 1	Ψ2/313/233	172 127 13	Ψ1/12/ /032		
1 Overhead Signs	ea	\$20,000	38	\$760,000	28	\$560,000		
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	24.6	\$29,076,124	12.0	\$14,136,709		
3 Traffic Handling	km	\$347,968	24.6	\$8,569,805	12.0	\$4,166,609		
4 Miscellaneous Costs	km	\$559,234	24.6	\$13,772,901	12.0	\$6,696,336		
5 City Street Relocation/Reconstruction	km	\$329,327	24.6	\$8,110,708	12.0	\$3,943,398		
6 Removals	km	\$323,113	24.6	\$7,957,676	12.0	\$3,868,994		
7 Surveillance, Control, & Communications	km	\$124,274	24.6	\$3,060,645	12.0	\$1,488,075		
Interchange (includes structure, right-of-wa			21.0	ψ3,000,013	12.0	φ1,100,075		
1 Major Freeway to Freeway Interchanges		\$177,525,000	2	\$355,050,000	3	\$532,575,000		
Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	2	\$23,610,000		\$23,610,000		
	ea		0	. , ,	1 0	. , ,		
Urb Overcrossing Ramp Modification Urb Overcrossing Bridge Replacement	ea	\$13,040,000 \$0,610,000	0	\$0 \$0	0	\$0 \$0		
5 Urb Overcrossing Bridge Modification	ea ea	\$9,610,000 \$200,000	0	\$0 \$0	0	\$0		
6 Sub Overcrossing Full Interchange Replacement		\$18,200,000	3	\$54,600,000	3	\$54,600,000		
7 Sub Overcrossing Ramp Modification	ea ea	\$10,340,000	2	\$20,680,000	2	\$20,680,000		
8 Sub Overcrossing Ramp Modification 8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	1	\$9,610,000		
9 Sub Overcrossing Bridge Replacement 9 Sub Overcrossing Bridge Modification		\$9,610,000	0	. , ,	1	\$9,610,000		
10 Und Overcrossing Full Interchange Replacement	ea ea	\$16,170,000	0	\$0 \$0	1	\$16,170,000		
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0 \$0	0	\$10,170,000		
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0 \$0	0	\$C		
13 Und Overcrossing Bridge Replacement	ea	\$200,000	0	\$0 \$0	0	\$C		
14 Urb Undercrossing Freeway Widening & Ramp Mod		\$20,050,000	5	\$100,250,000	0	\$C		
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$20,030,000	3	\$2,700,000	4	\$3,600,000		
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	8	\$118,600,000	6	\$3,600,000		
17 Sub Freeway Bridge Widening (No Interchange)	ea ea	\$14,823,000	3	\$2,700,000	7	\$6,300,000		
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$2,700,000	0	\$0,500,000		
19 Und Freeway Bridge Widening (No Interchange)	ea	\$12,830,000	0	\$0 \$0	0	\$(
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0 \$0	0	\$0		
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000		
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0 \$0	0	\$3,100,000		
Itility Relocation	Ca	\$5,100,000	U	\$ 0	U	φu		
1 Major Utility relocations - Urban	lem	\$758,511	7.9	\$6,004,522	2.0	\$1,513,751		
Major Utility relocations - Orban Major Utility relocations - Suburban	km	\$406,345	16.7	\$6,790,828	2.0 9.6	\$1,513,751		
3 Major Utility relocations - Suburban 3 Major Utility relocations - Undeveloped	km km	\$11,919		\$6,790,626 \$0				
			0.0	\$0	0.4	\$4,758		
Right-of-Way Items (Interchange Right-of-W				100 007 065	2.0	110.055.655		
1 Right-of-way - Urban	Hectares	\$3,499,093	11.4	\$39,887,265	2.9	\$10,055,655		
2 Right-of-way - Suburban	Hectares	\$1,166,364	24.1	\$28,068,816	13.8	\$16,089,047		
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	0.6	\$167,594		
nvironmental Mitigation								
Environmental Mitigation (3% of Construction Costs)				\$23,859,496		\$24,331,488		
Program Implementation Costs								
Program Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$226,218,686		\$219,731,814		
ontingencies								
Contingencies (25% of Total Construction Cost)				\$221,783,025		\$215,423,347		
otal Construction	1			\$795,316,523		\$811,049,604		
otal Construction and Right of Way				\$753,310,323		\$011,U43,0U		
·						100:		
ncludes Environmental Mitigation)				\$887,132,100		\$861,693,38		
Grand Total				\$1,335,133,811		\$1,296,848,550		

QUANTITY WORKSHEET - Modal Alternative CAPITAL COST ESTIMATES CA HSRA PROGRAM EIR/EIS Bakersfield to Los Angeles

	UNIT	UNIT PRICE		Highway S	egments	
			SD-1	58/14	CD	-14
Highway Cost				Palmdale		le to I-5
Highway Cost						
Main Line 1 No. of additional lanes in both directions		NI/A	Unit 0	Unit Cost	Unit	Unit Cost
2 Length of Highway	ea km	N/A N/A	156.2	See Items 3-6 See Items 3-6	56.1	See Items 3-6 See Items 3-6
3 Pavement-AC	m2	\$48	0.0	\$0	134554.0	\$6,517,471
4 Pavement-PCC	m2	\$65	0.0	\$0	269107.9	\$17,492,016
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$17,132,010
6 Earthwork	m3	\$7	0.0	\$0	403661.9	\$2,639,849
Other		Τ.		7-		4=/000/010
1 Overhead Signs	ea	\$20,000	88	\$0	28	\$560,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	156.2	\$0	56.1	\$66,189,637
3 Traffic Handling	km	\$347,968	156.2	\$0	56.1	\$19,508,524
4 Miscellaneous Costs	km	\$559,234	156.2	\$0	56.1	\$31,352,986
5 City Street Relocation/Reconstruction	km	\$329,327	156.2	\$0	56.1	\$18,463,425
6 Removals	km	\$323,113	156.2	\$0	56.1	\$18,115,058
7 Surveillance, Control, & Communications	km	\$124,274	156.2	\$0	56.1	\$6,967,330
Interchange (includes structure, right-of-wa	y, and mo		<u> </u>		<u> </u>	
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$0	2	\$355,050,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	0	\$0
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	0	\$0
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	7	\$0	2	\$36,400,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	7	\$0	2	\$20,680,000
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	5	\$0	1	\$9,610,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	4	\$0	0	\$0
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	6	\$0	1	\$16,170,000
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	5	\$0	1	\$9,350,000
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	5	\$0	1	\$9,610,000
13 Und Overcrossing Bridge Modification	ea	\$200,000	4	\$0	1	\$200,000
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	11	\$0	5	\$74,125,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	11	\$0	11	\$9,900,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	8	\$0	2	\$25,700,000
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	5	\$0	3	\$2,700,000
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
Utility Relocation		1350 5: 1	2.7	1-1	2.51	
1 Major Utility relocations - Urban	km	\$758,511	0.0	\$0	0.0	\$0
2 Major Utility relocations - Suburban	km	\$406,345	91.0	\$0	37.4	\$15,187,609
3 Major Utility relocations - Undeveloped	km	\$11,919	65.3	\$0	18.7	\$222,752
Right-of-Way Items (Interchange Right-of-W				1.0		
1 Right-of-way - Urban	Hectares	\$3,499,093	0.0	\$0	0.0	\$0
2 Right-of-way - Suburban	Hectares	\$1,166,364	0.0	\$0	26.9	\$31,387,792
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	13.5	\$3,923,473
Environmental Mitigation						
Environmental Mitigation (3% of Construction Costs)				\$0		\$23,274,350
Program Implementation Costs			·		·	
Program Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$0		\$212,771,305
Contingencies						
Contingencies (25% of Total Construction Cost)				\$0		\$208,599,318
Total Construction				\$0		\$775,811,658
Total Construction and Right of Way						
(Includes Environmental Mitigation)				\$0		\$834,397,273
Grand Total				\$0		\$1,255,767,895
Orana Iviai				φU		Ψ1,233,707,033

COST ELEMENTS	UNIT	UNIT PRICE		Highway S		10
Highway Cost			I-5 to East	-10 : San Gabriel alley	East San G	·10 abriel Valley ·io Airport
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	46.1	See Items 3-6	24.3	See Items 3-6
3 Pavement-AC	m2	\$48	110632.1	\$5,358,752	58319.3	\$2,824,848
4 Pavement-PCC	m2	\$65	221264.2	\$14,382,170	116638.7	\$7,581,514
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	331896.2	\$2,170,519	174958.0	\$1,144,182
Other	-					
1 Overhead Signs	ea	\$20,000	66	\$1,320,000	34	\$680,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	46.1	\$54,422,004	24.3	\$28,688,381
3 Traffic Handling 4 Miscellaneous Costs	km	\$347,968	46.1	\$16,040,170	24.3	\$8,455,523
	km	\$559,234 \$330,337	46.1	\$25,778,844	24.3 24.3	\$13,589,233
5 City Street Relocation/Reconstruction 6 Removals	km km	\$329,327 \$323,113	46.1 46.1	\$15,180,875 \$14,894,443	24.3	\$8,002,548 \$7,851,557
7 Surveillance, Control, & Communications	km	\$323,113 \$124,274	46.1	\$5,728,632	24.3	\$3,019,830
Interchange (includes structure, right-of-wa			10.1	ψ3,720,032	21.5	ψ3,013,030
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	3	\$532,575,000	3	\$532,575,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	1	\$23,610,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	1	\$13,040,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	3	\$54,600,000	2	\$36,400,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	3	\$31,020,000	1	\$10,340,000
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	2	\$19,220,000	2	\$19,220,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	1	\$200,000	2	\$400,000
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	3	\$60,150,000	4	\$80,200,000
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	1	\$900,000
16 Sub Undercrossing Freeway Widening & Ramp Mod 17 Sub Freeway Bridge Widening (No Interchange)	ea	\$14,825,000	20 12	\$296,500,000	7	\$103,775,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea ea	\$900,000 \$12,850,000	0	\$10,800,000 \$0	1	\$3,600,000 \$12,850,000
19 Und Freeway Bridge Widening (No Interchange)	ea	\$12,830,000	0	\$0 \$0	0	\$12,830,000 \$0
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0 \$0	0	\$0 \$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	3	\$9,300,000	0	\$0 \$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utility Relocation				· .	<u>_</u>	·
1 Major Utility relocations - Urban	km	\$758,511	4.4	\$3,362,007	5.9	\$4,449,012
2 Major Utility relocations - Suburban	km	\$406,345	41.7	\$16,930,108	15.1	\$6,128,740
3 Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	3.4	\$39,950
Right-of-Way Items (Interchange Right-of-	Way cost	not included)				
1 Right-of-way - Urban	Hectares	\$3,499,093	3.2	\$11,166,690	4.2	\$14,777,105
2 Right-of-way - Suburban	Hectares	\$1,166,364	30.0	\$34,988,963	10.9	\$12,666,090
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	2.4	\$703,672
Environmental Mitigation						
Environmental Mitigation (3% of Construction Costs)			\$36,433,306		\$27,880,960
Program Implementation Costs						
Program Implementation Costs (25.5% of Total Cos	t and Procu	rement)		\$330,743,283		\$251,275,252
Contingencies						
Contingencies (25% of Total Construction Cost)				\$324,258,121		\$246,348,286
Total Construction				\$1,214,443,525	<u> </u>	\$929,365,318
Total Construction and Right of Way				Ţ-, ·, · · · · · · · · · · · ·		+==>/555/510
(Includes Environmental Mitigation)				\$1,297,032,484		\$985,393,144
Grand Total						
GLANG TOTAL				\$1,952,033,888		\$1,483,016,682

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
Highway Cost				-10 rport to I-15		-10 o I-215
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	4.5	See Items 3-6	23.0	See Items 3-6
3 Pavement-AC	m2	\$48	10871.0	\$526,564	55223.5	\$2,674,895
4 Pavement-PCC	m2	\$65	21742.0	\$1,413,228	110447.1	\$7,179,059
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	32613.0	\$213,281	165670.6	\$1,083,445
Other						
1 Overhead Signs	ea	\$20,000	4	\$80,000	24	\$480,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	4.5	\$5,347,644	23.0	\$27,165,497
3 Traffic Handling	km	\$347,968	4.5	\$1,576,148	23.0	\$8,006,673
4 Miscellaneous Costs	km	\$559,234	4.5	\$2,533,094	23.0	\$12,867,867
5 City Street Relocation/Reconstruction	km	\$329,327	4.5	\$1,491,711	23.0	\$7,577,744
6 Removals	km	\$323,113	4.5	\$1,463,566	23.0	\$7,434,768
7 Surveillance, Control, & Communications	km	\$124,274	4.5	\$562,910	23.0	\$2,859,526
Interchange (includes structure, right-of-wa		obilization)	. 1		. [
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	1	\$177,525,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	3	\$70,830,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	1	\$13,040,000	3	\$39,120,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
6 Sub Overcrossing Full Interchange Replacement 7 Sub Overcrossing Ramp Modification	ea	\$18,200,000 \$10,340,000	0	\$0	1	\$18,200,000
7 Sub Overcrossing Ramp Modification 8 Sub Overcrossing Bridge Replacement	ea	\$10,340,000	0	\$0 \$0	0	\$10,340,000
Sub Overcrossing Bridge Replacement Sub Overcrossing Bridge Modification	ea ea	\$9,610,000	0	\$0	0	\$0 \$0
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	1	\$16,170,000
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$10,170,000
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0 \$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0 \$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	1	\$900,000
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	1	\$14,825,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	1	\$900,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	1	\$12,850,000
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	1	\$900,000
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utility Relocation						
1 Major Utility relocations - Urban	km	\$758,511	3.0	\$2,290,491	12.2	\$9,239,930
2 Major Utility relocations - Suburban	km	\$406,345	0.0	\$0	5.4	\$2,199,983
3 Major Utility relocations - Undeveloped	km	\$11,919	1.5	\$17,997	5.4	\$64,533
Right-of-Way Items (Interchange Right-of-	Way cost	not included)				
1 Right-of-way - Urban	Hectares	\$3,499,093	2.2	\$7,607,719	8.8	\$30,689,833
2 Right-of-way - Suburban	Hectares	\$1,166,364	0.0	\$0	3.9	\$4,546,642
3 Right-of-way - Undeveloped	Hectares	\$291,591	1.1	\$316,988	3.9	\$1,136,660
Environmental Mitigation						
Environmental Mitigation (3% of Construction Costs)			\$6,950,749		\$13,923,118
Program Implementation Costs						
Program Implementation Costs (25.5% of Total Cos	t and Procu	rement)		\$62,874,608		\$131,172,044
Contingencies						
Contingencies (25% of Total Construction Cost)				\$61,641,773		\$128,600,043
Total Construction				\$231,691,634		\$464,103,920
Total Construction and Right of Way				+ 202/001/001		+ 10 1/100/520
(Includes Environmental Mitigation)				¢246 567 000		¢51// /// 17
				\$246,567,090		\$514,400,17
Grand Total				\$371,083,471		\$774,172,25

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	egments	
Highway Cost				-15 o I-215		215 le to I-15
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	74.6	See Items 3-6	56.0	See Items 3-6
3 Pavement-AC	m2	\$48	179003.7	\$8,670,508	134472.2	\$6,513,509
4 Pavement-PCC	m2	\$65	358007.4	\$23,270,479	268944.3	\$17,481,382
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	537011.0	\$3,511,920	403416.5	\$2,638,244
Other						
1 Overhead Signs	ea	\$20,000	42	\$840,000	50	\$1,000,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	74.6	\$88,055,288	56.0	\$66,149,394
3 Traffic Handling	km	\$347,968	74.6	\$25,953,137	56.0	\$19,496,664
4 Miscellaneous Costs	km	\$559,234	74.6	\$41,710,400	56.0	\$31,333,924
5 City Street Relocation/Reconstruction	km	\$329,327	74.6	\$24,562,791	56.0	\$18,452,200
6 Removals	km	\$323,113	74.6	\$24,099,342	56.0	\$18,104,045
7 Surveillance, Control, & Communications	km	\$124,274	74.6	\$9,268,978	56.0	\$6,963,094
Interchange (includes structure, right-of-w	ay, and m				<u>.</u>	
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	4	\$710,100,000	3	\$532,575,000
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	2	\$47,220,000	1	\$23,610,000
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	1	\$13,040,000	1	\$13,040,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$(
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	3	\$54,600,000	5	\$91,000,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	2	\$20,680,000	4	\$41,360,000
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	3	\$28,830,000	2	\$19,220,000
9 Sub Overcrossing Bridge Modification	ea	\$200,000	3	\$600,000	1	\$200,000
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	1	\$16,170,000	5	\$80,850,000 \$46,750,000
11 Und Overcrossing Ramp Modification 12 Und Overcrossing Bridge Replacement	ea	\$9,350,000 \$9,610,000	1	\$9,350,000	1	\$46,750,000
13 Und Overcrossing Bridge Replacement 13 Und Overcrossing Bridge Modification	ea ea	\$9,610,000	1	\$9,610,000 \$200,000	0	\$9,610,000
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	5	\$100,250,000	0	\$(
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	10	\$9,000,000	3	\$2,700,00
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	5	\$74,125,000	3	\$44,475,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	5	\$4,500,000	4	\$3,600,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	1	\$12,850,000	1	\$12,850,000
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	4	\$3,600,000	0	\$(
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$(
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$(
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$(
Utility Relocation			<u></u>	· .	<u>"</u>	<u> </u>
1 Major Utility relocations - Urban	km	\$758,511	30.1	\$22,846,982	8.6	\$6,538,37
2 Major Utility relocations - Suburban	km	\$406,345	31.6	\$12,822,286	28.7	\$11,675,673
3 Major Utility relocations - Undeveloped	km	\$11,919	12.9	\$153,867	18.7	\$222,610
Right-of-Way Items (Interchange Right-of-				,,		, ,,==
1 Right-of-way - Urban	Hectares	\$3,499,093	21.7	\$75,884,779	6.2	\$21,716,79
2 Right-of-way - Suburban	Hectares	\$1,166,364	22.7	\$26,499,447	20.7	\$24,129,776
3 Right-of-way - Undeveloped	Hectares	\$291,591	9.3	\$2,710,170	13.4	\$3,921,088
Environmental Mitigation						
Environmental Mitigation (3% of Construction Costs)			\$42,014,729		\$33,852,27
Program Implementation Costs	/			Ţ :=/01 ·/· 23		+-5/002/2/
Program Implementation Costs (25.5% of Total Cost	t and Procu	rement)		\$394,638,026	I	\$309,067,410
Contingencies	c and i locu	i ci ii ci ii ci		ψυση,υυο,υΖυ		φυυσ,υυ/,410
Contingencies (25% of Total Construction Cost)				4306 000 03C	ı	4202 007 20
· · · · · · · · · · · · · · · · · · ·				\$386,900,026		\$303,007,26
Total Construction				\$1,400,490,978		\$1,128,409,12
Total Construction and Right of Way						
Includes Environmental Mitigation)				\$1,547,600,103		\$1,212,029,05
Grand Total				\$2,329,138,154		\$1,824,103,73

COST ELEMENTS	UNIT	UNIT PRICE	Highway Segments				
				215		·15	
lighway Cost			I-10 to	Riverside	I-215 to	Temecula	
Main Line			Unit	Unit Cost	Unit	Unit Cost	
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6	
2 Length of Highway	km	N/A	10.9	See Items 3-6	8.1	See Items 3-6	
3 Pavement-AC	m2	\$48	26270.6	\$1,272,484	19472.6	\$943,205	
4 Pavement-PCC	m2	\$65	52541.2	\$3,415,176	38945.2	\$2,531,436	
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0	
6 Earthwork	m3	\$7	78811.7	\$515,409	58417.8	\$382,038	
Other Standard Gigns		±20,000		±120,000	2	±40.000	
1 Overhead Signs 2 Drainage, Landscape, Signing, Signals, & Lighting	ea	\$20,000	6	\$120,000	2 8.1	\$40,000	
3 Traffic Handling	km km	\$1,180,605 \$347,968	10.9 10.9	\$12,922,995 \$3,808,883	8.1	\$9,578,932 \$2,823,264	
4 Miscellaneous Costs	km	\$559,234	10.9	\$6,121,419	8.1	\$4,537,389	
5 City Street Relocation/Reconstruction	km	\$329,327	10.9	\$3,604,835	8.1	\$2,672,018	
6 Removals	km	\$323,113	10.9	\$3,536,820	8.1	\$2,621,602	
7 Surveillance, Control, & Communications	km	\$124,274	10.9	\$1,360,315	8.1	\$1,008,309	
Interchange (includes structure, right-of-w	av, and m	obilization)		, , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	
1 Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	0	\$0	
2 Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$0	1	\$23,610,000	
3 Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	0	\$0	
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0	
5 Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0	
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	2	\$36,400,000	0	\$0	
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	1	\$10,340,000	0	\$0	
8 Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0	
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0	
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0	
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0	
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0	
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0 \$0	0	\$0 \$0	
14 Urb Undercrossing Freeway Widening & Ramp Mod 15 Urb Freeway Bridge Widening (No Interchange)	ea	\$20,050,000 \$900,000	0	\$0 \$0	0	\$0 \$0	
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0 \$0	0	\$0 \$0	
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	3	\$2,700,000	0	\$0	
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0 \$0	
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0	
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0	
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0	
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0	
Jtility Relocation			<u> </u>				
1 Major Utility relocations - Urban	km	\$758,511	1.4	\$1,037,841	8.1	\$6,154,241	
2 Major Utility relocations - Suburban	km	\$406,345	9.6	\$3,891,902	0.0	\$0	
3 Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	0.0	\$0	
Right-of-Way Items (Interchange Right-of	-Way cost	not included)					
1 Right-of-way - Urban	Hectares	\$3,499,093	1.0	\$3,447,121	5.8	\$20,440,916	
2 Right-of-way - Suburban	Hectares	\$1,166,364	6.9	\$8,043,281	0.0	\$0	
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	0.0	\$0	
Environmental Mitigation							
Environmental Mitigation (3% of Construction Cost	s)			\$8,345,492		\$1,707,073	
Program Implementation Costs							
Program Implementation Costs (25.5% of Total Co	st and Procu	rement)		\$75,994,838		\$20,157,858	
Contingencies							
Contingencies (25% of Total Construction Cost)				\$74,504,743		\$19,762,606	
Total Construction				\$278,183,078		\$56,902,434	
Total Construction and Right of Way							
Includes Environmental Mitigation)				\$298,018,972		\$79,050,423	
Grand Total				\$448,518,554		\$118,970,886	

	COST ELEMENTS	UNIT	UNIT PRICE		Highway	Segments	
				T.	-15	T	-15
Hiah	way Cost				to Escondido		to Mira Mesa
	Line			Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2		km	N/A	42.9	See Items 3-6	24.8	See Items 3-6
3		m2	\$48	102939.1	\$4,986,125	59510.9	\$2,882,566
4		m2	\$65	205878.3	\$13,382,088	119021.8	\$7,736,419
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	308817.4	\$2,019,590	178532.7	\$1,167,560
Othe	r						
1	Overhead Signs	ea	\$20,000	18	\$360,000		\$560,000
2		km	\$1,180,605	42.9	\$50,637,705		\$29,274,542
	Traffic Handling	km	\$347,968	42.9	\$14,924,797		\$8,628,286
4		km	\$559,234	42.9	\$23,986,281	24.8	\$13,866,888
5	*	km	\$329,327	42.9	\$14,125,255		\$8,166,056
	Removals	km	\$323,113	42.9	\$13,858,740		\$8,011,980
7	, ,	km	\$124,274	42.9	\$5,330,285	24.8	\$3,081,531
	rchange (includes structure, right-of-wa			•	+ 0	-	+477 F0F 000
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	0	\$0	1	\$177,525,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000		\$23,610,000
3	<u> </u>	ea	\$13,040,000	0	\$0 \$0	0	\$0
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000 \$200,000	0	\$0 \$0	0	\$0 \$0
6	Urb Overcrossing Bridge Modification Sub Overcrossing Full Interchange Replacement	ea ea	\$18,200,000	1	\$18,200,000	2	\$36,400,000
7	<u> </u>	ea	\$10,340,000	0	\$18,200,000	2	\$20,680,000
	Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000		\$20,000,000
9		ea	\$200,000	0	\$0	0	\$0 \$0
_	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	2	\$32,340,000	0	\$0 \$0
	Und Overcrossing Ramp Modification	ea	\$9,350,000	2	\$18,700,000	0	\$0
	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	3	\$60,150,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000	4	\$3,600,000
16	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	2	\$29,650,000	6	\$88,950,000
17	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	4	\$3,600,000	5	\$4,500,000
18	Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	1	\$12,850,000	0	\$0
19	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	6	\$5,400,000	0	\$0
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	1 Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	2 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	y Relocation						
	Major Utility relocations - Urban	km	\$758,511	5.6	\$4,243,507		\$7,053,080
	Major Utility relocations - Suburban	km	\$406,345	14.9	\$6,062,152		\$6,297,393
	Major Utility relocations - Undeveloped	km	\$11,919	22.4	\$266,735	0.0	\$0
	t-of-Way Items (Interchange Right-of-V						122 22 2
	Right-of-way - Urban	Hectares	\$3,499,093		\$14,094,534		\$23,426,352
	Right-of-way - Suburban	Hectares	\$1,166,364 \$201,501		\$12,528,475		\$13,014,640
	Right-of-way - Undeveloped	Hectares	\$291,591	16.1	\$4,698,177	0.0	\$0
	ronmental Mitigation				10 500 500		445.054.555
	vironmental Mitigation (3% of Construction Costs)				\$9,586,598		\$15,364,239
	ram Implementation Costs	1.5	.,		124 - 1 - 1		1.4
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$91,917,566		\$143,806,366
	ingencies	,					
	ontingencies (25% of Total Construction Cost)				\$90,115,261		\$140,986,633
	Construction				\$319,553,260		\$512,141,302
Total	Construction and Right of Way						
	ides Environmental Mitigation)				\$360,461,043		\$563,946,532
<u> </u>	d Total				\$542,493,870		\$848,739,531
JI ail	w - v · · · ·				φυ 12, 100,070		φο ίδη σσησσι

	COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
				I	-15	SR	-163
High	way Cost			Mira Mesa	a to SR-163	I-15	to I-8
Main	Line			Unit	Unit Cost	Unit	Unit Cost
1	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2	, ,	km	N/A	6.6	See Items 3-6	12.3	See Items 3-6
3	Pavement-AC	m2	\$48	15806.2	\$765,616	29509.2	\$1,429,357
4		m2	\$65	31612.5	\$2,054,810	59018.5	\$3,836,202
5	·	m2	\$1,346	0.0	\$0	0.0	\$0
	Earthwork	m3	\$7	47418.7	\$310,107	88527.7	\$578,949
Othe							
1	3	ea	\$20,000	4	\$80,000	16	\$320,000
2		km	\$1,180,605	6.6	\$7,775,384	12.3	\$14,516,153
3		km	\$347,968	6.6	\$2,291,692	12.3	\$4,278,445
4		km	\$559,234	6.6	\$3,683,076	12.3	\$6,876,073
5	•	km	\$329,327	6.6	\$2,168,923	12.3	\$4,049,243
6		km	\$323,113	6.6	\$2,128,000	12.3	\$3,972,842
7	, ,	km	\$124,274	6.6	\$818,461	12.3	\$1,528,016
	change (includes structure, right-of-wa			. 1		- 1	
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	3	\$532,575,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	2	\$47,220,000
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$0	1	\$13,040,000
4	3 3 1	ea	\$9,610,000	0	\$0	1	\$9,610,000
5		ea	\$200,000	0	\$0	0	\$0
6	J	ea	\$18,200,000 \$10,340,000	0	\$0	1 0	\$18,200,000
7	5 · P · · · · · · · · · · · · · · · · ·	ea	' ' '	0	\$0	0	\$0 \$0
8		ea	\$9,610,000 \$200,000	0	\$0 \$0	0	\$0
9	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	1	\$16,170,000	1	\$16,170,000
	Und Overcrossing Ramp Modification	ea ea	\$16,170,000	0	\$10,170,000	0	\$10,170,000
	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$C
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$9,010,000	0	\$C
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	0	\$0
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	3	\$2,700,000
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	0	\$0	1	\$14,825,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
	B Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$C
	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$C
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	2	\$6,200,000
	Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utilit	y Relocation		<u>, , , , , , , , , , , , , , , , , , , </u>				<u> </u>
1	Major Utility relocations - Urban	km	\$758,511	1.6	\$1,248,876	8.2	\$6,217,528
	Major Utility relocations - Suburban	km	\$406,345	0.0	\$0	2.5	\$999,246
	Major Utility relocations - Undeveloped	km	\$11,919	4.9	\$58,876	1.6	\$19,541
	t-of-Way Items (Interchange Right-of-			- 1			, ,
1	Right-of-way - Urban	Hectares	\$3,499,093	1.2	\$4,148,061	5.9	\$20,651,118
	Right-of-way - Suburban	Hectares	\$1,166,364	0.0	\$0	1.8	\$2,065,112
	Right-of-way - Undeveloped	Hectares	\$291,591	3.6	\$1,037,015	1.2	\$344,185
Envi	onmental Mitigation						
	vironmental Mitigation (3% of Construction Costs)				\$7,508,965		\$21,274,848
	ram Implementation Costs	· I			, , , , , , , , , , , , , , , , , , , ,		, =,=,0 .0
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$67,063,179		\$192,141,698
	ingencies	a . 10cu			70,,000,11,		+172/1 11/03C
	ontingencies (25% of Total Construction Cost)				\$65,748,215		\$188,374,214
	Construction						
					\$250,298,820		\$709,161,594
	Construction and Right of Way						
<u> </u>	des Environmental Mitigation)				\$262,992,861		\$753,496,857
Gran	d Total				\$395,804,255		\$1,134,012,770

	COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
				,	:-5	,	I-5
Hiah	way Cost				les to I-10		Norwalk
Main				Unit	Unit Cost	Unit	Unit Cost
1		ea	N/A	4	See Items 3-6	2	See Items 3-6
2	Length of Highway	km	N/A	1.2	See Items 3-6	33.3	See Items 3-6
3	Pavement-AC	m2	\$48	5810.5	\$281,446	79977.7	\$3,873,928
4		m2	\$65	11621.0	\$755,364	159955.4	\$10,397,101
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	17431.5	\$113,998	239933.1	\$1,569,103
Othe							
	Overhead Signs	ea	\$20,000	2	\$40,000	44	\$880,000
2		km	\$1,180,605	1.2	\$1,429,145	33.3	\$39,342,541
	Traffic Handling	km	\$347,968	1.2	\$421,222	33.3	\$11,595,696
4		km	\$559,234	1.2	\$676,963	33.3	\$18,635,940
5	*	km	\$329,327	1.2	\$398,656	33.3	\$10,974,498
6		km	\$323,113	1.2	\$391,134	33.3	\$10,767,432
7	Surveillance, Control, & Communications change (includes structure, right-of-wa	km	\$124,274	1.2	\$150,436	33.3	\$4,141,320
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	4	\$710,100,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	0	\$177,323,000	1	\$23,610,000
3		ea	\$13,040,000	0	\$0	0	\$23,010,000
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
	Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0,010,000
6		ea	\$18,200,000	0	\$0	3	\$54,600,000
7	Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	3	\$31,020,000
8	Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
	Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	1	\$200,000
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0
11	Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0
12	2 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	0	\$0	4	\$80,200,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	3	\$2,700,000
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	1	\$14,825,000	8	\$118,600,000
	7 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	5	\$4,500,000
	B Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0
	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	1	\$900,000
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0 #0.300.000
	Sub At-Grade Interchange Modification	ea	\$3,100,000 \$3,100,000	0	\$0 \$0	3	\$9,300,000
	2 Und At-Grade Interchange Modification TY Relocation	ea	\$3,100,000	U	\$0	U	\$0
	Major Utility relocations - Urban	Luca	↑750 511	0.0	\$0	0.0	AC CE1 755
	Major Utility relocations - Suburban	km km	\$758,511 \$406,345	0.0 1.2	\$491,889	8.8 22.8	1-7 7
	Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$00,16 1	1.8	\$20,906
	t-of-Way Items (Interchange Right-of-\			0.0	φ0	1.0	\$20,500
	Right-of-way - Urban	Hectares	\$3,499,093	0.0	\$0	6.3	\$22,093,376
	Right-of-way - Suburban	Hectares	\$1,166,364	1.7	\$2,033,145	16.4	\$19,147,593
	Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$2,033,143	1.3	\$368,223
	ronmental Mitigation		Ψ251,551	5.0	ΨΟ	1.5	4300,223
	vironmental Mitigation (3% of Construction Costs)				\$5,952,008		\$35,491,955
	ram Implementation Costs				\$3,932,000		\$33, 13 1,333
_	ogram Implementation Costs (25.5% of Total Cost	and Drocu	rement)		\$52,628,279		¢221 242 410
	ingencies	and Flocu	iement)		φ 32,020,279		\$321,342,410
					¢E1 E0C 2E2		#21E 041 E70
	entingencies (25% of Total Construction Cost)				\$51,596,352		\$315,041,578
	Construction				\$198,400,254		\$1,183,065,165
	Construction and Right of Way						
	des Environmental Mitigation)				\$206,385,406		\$1,260,166,312
Gran	d Total				\$310,610,037		\$1,896,550,299

COST ELEMENTS	UNIT	UNIT PRICE		Highway S	Segments	
			,	:-5	1	:-5
Highway Cost				to Anaheim		i to Irvine
Main Line			Unit	Unit Cost	Unit	Unit Cost
1 No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2 Length of Highway	km	N/A	13.1	See Items 3-6	16.2	See Items 3-6
3 Pavement-AC	m2	\$48	31400.2	\$1,520,948	38780.7	\$1,878,444
4 Pavement-PCC	m2	\$65	62800.3	\$4,082,020	77561.4	\$5,041,493
5 Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6 Earthwork	m3	\$7	94200.5	\$616,048	116342.1	\$760,849
Other						
1 Overhead Signs	ea	\$20,000	40	\$800,000	28	\$560,000
2 Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	13.1	\$15,446,327	16.2	\$19,076,964
3 Traffic Handling	km	\$347,968	13.1	\$4,552,602	16.2	\$5,622,684
4 Miscellaneous Costs	km	\$559,234	13.1	\$7,316,681	16.2	\$9,036,456
5 City Street Relocation/Reconstruction	km	\$329,327	13.1	\$4,308,712	16.2	\$5,321,469
6 Removals	km	\$323,113	13.1	\$4,227,416	16.2	\$5,221,064
7 Surveillance, Control, & Communications	km	\$124,274	13.1	\$1,625,929	16.2	\$2,008,101
Interchange (includes structure, right-of-w			4	\$177,525,000	4	¢710,100,000
1 Major Freeway to Freeway Interchanges 2 Urb Overcrossing Full Interchange Replacement	ea	\$177,525,000 \$23,610,000	5		4	\$710,100,000
3 Urb Overcrossing Ramp Modification	ea	\$23,610,000	4	\$118,050,000 \$52,160,000	2	\$47,220,000 \$26,080,000
4 Urb Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$20,080,000
5 Urb Overcrossing Bridge Replacement	ea	\$200,000	0	\$9,610,000	0	\$0
6 Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	3	\$54,600,000	1	\$18,200,000
7 Sub Overcrossing Ramp Modification	ea	\$10,340,000	2	\$20,680,000	0	\$10,200,000
Sub Overcrossing Ramp Floatmeaton Sub Overcrossing Bridge Replacement	ea	\$9,610,000	1	\$9,610,000	0	\$0
9 Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$C
10 Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	0	\$0
11 Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	0	\$0
12 Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
13 Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$0
14 Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	3	\$60,150,000	4	\$80,200,000
15 Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	3	\$2,700,000
16 Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	1	\$14,825,000	5	\$74,125,000
17 Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	1	\$900,000
18 Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	0	\$0
19 Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
20 Urb At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000	0	\$0
21 Sub At-Grade Interchange Modification	ea	\$3,100,000	1	\$3,100,000	0	\$0
22 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utility Relocation						
1 Major Utility relocations - Urban	km	\$758,511	8.4	\$6,351,300	10.3	\$7,799,595
2 Major Utility relocations - Suburban	km	\$406,345	4.7	\$1,913,896	5.9	\$2,387,631
3 Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	0.0	\$0
Right-of-Way Items (Interchange Right-of-						
1 Right-of-way - Urban	Hectares	\$3,499,093	6.0	\$21,095,435	7.4	\$25,905,852
2 Right-of-way - Suburban	Hectares	\$1,166,364	3.4	\$3,955,394	4.2	\$4,934,448
3 Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	0.0	\$0
Environmental Mitigation			·			
Environmental Mitigation (3% of Construction Costs	s)			\$17,339,156		\$30,727,193
Program Implementation Costs				·		
Program Implementation Costs (25.5% of Total Co	st and Procu	rement)		\$158,192,276		\$276,880,847
Contingencies						
Contingencies (25% of Total Construction Cost)				\$155,090,467		\$271,451,811
Total Construction				\$577,971,880		\$1,024,239,750
Total Construction and Right of Way						
(Includes Environmental Mitigation)				\$620,361,866		\$1,085,807,243
Grand Total				\$933,644,609		\$1,634,139,901
O- man 2 VIII				Ψ555,011,005		Ψ1,00 1,100,00

	COST ELEMENTS	UNIT	UNIT PRICE	Highway Segments			
				,	I-5	,	r_E
Highway Cost					to I-405	I-5 I-405 to SR-78	
Main				Unit	Unit Cost	Unit	Unit Cost
	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2	Length of Highway	km	N/A	4.2	See Items 3-6	68.9	See Items 3-6
3	Pavement-AC	m2	\$48	10117.5	\$490,065	165289.8	\$8,006,240
4	Pavement-PCC	m2	\$65	20234.9	\$1,315,269	330579.6	\$21,487,673
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	0.0	\$0
6	Earthwork	m3	\$7	30352.4	\$198,497	495869.4	\$3,242,863
Othe	r						
	Overhead Signs	ea	\$20,000	10	\$200,000	62	\$1,240,000
	Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	4.2	\$4,976,965	68.9	\$81,309,165
	3	km	\$347,968	4.2	\$1,466,895	68.9	\$23,964,807
4	Miscellaneous Costs	km	\$559,234	4.2	\$2,357,510	68.9	\$38,514,868
5	City Street Relocation/Reconstruction	km	\$329,327	4.2	\$1,388,311	68.9	\$22,680,978
6	Removals	km	\$323,113	4.2	\$1,362,117	68.9	\$22,253,035
7	Surveillance, Control, & Communications	km	\$124,274	4.2	\$523,891	68.9	\$8,558,860
	change (includes structure, right-of-wa				+255 252 222		+500 575 000
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	2	\$355,050,000	3	\$532,575,000
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	2	\$47,220,000	2	\$47,220,000
3	Urb Overcrossing Ramp Modification	ea	\$13,040,000	1	\$13,040,000	2	\$26,080,000
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0 #0	0	\$0
	Urb Overcrossing Bridge Modification Sub Overcrossing Full Interchange Replacement	ea	\$200,000	0	\$0 \$0	3	\$C
7	Sub Overcrossing Full Interchange Replacement Sub Overcrossing Ramp Modification	ea	\$18,200,000 \$10,340,000	0	\$0 \$0	2	\$54,600,000 \$20,680,000
	Sub Overcrossing Ramp Modification Sub Overcrossing Bridge Replacement	ea ea	\$10,340,000	0	\$0 \$0	0	\$20,660,000
	Sub Overcrossing Bridge Replacement Sub Overcrossing Bridge Modification	ea	\$200,000	0	\$0 \$0	0	\$0
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	1	\$16,170,000
	Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	1	\$9,350,000
	Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	1	\$9,610,000
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	0	\$5,010,000
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	1	\$20,050,000	4	\$80,200,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	3	\$2,700,000
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	1	\$14,825,000	9	\$133,425,000
	Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	5	\$4,500,000
	Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0	6	\$77,100,000
	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	0	\$0	0	\$0
20	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	1	\$3,100,000
21	Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
Utilit	y Relocation						
	Major Utility relocations - Urban	km	\$758,511	3.2	\$2,398,189	20.8	\$15,793,262
	Major Utility relocations - Suburban	km	\$406,345	1.1	\$428,248	33.6	
	Major Utility relocations - Undeveloped	km	\$11,919	0.0	\$0	14.4	\$171,817
	:-of-Way Items (Interchange Right-of-V	Vay cost					
	Right-of-way - Urban	Hectares	\$3,499,093	2.3	\$7,965,429	15.0	\$52,456,303
	Right-of-way - Suburban	Hectares	\$1,166,364	0.8	\$885,048		\$28,245,702
	Right-of-way - Undeveloped	Hectares	\$291,591	0.0	\$0	10.4	\$3,026,325
	onmental Mitigation						
	vironmental Mitigation (3% of Construction Costs)				\$14,045,729		\$38,346,024
Prog	ram Implementation Costs						
Pro	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$125,227,226		\$357,070,168
	ngencies		•				
	ntingencies (25% of Total Construction Cost)				\$122,771,791		\$350,068,792
	Construction				\$468,190,957		\$1,278,200,813
	Construction and Right of Way				ψ 100/150/557		Ψ1/2/0/200/013
	The state of the s				¢401.007.163		#1 400 37F 46
	des Environmental Mitigation)				\$491,087,163		\$1,400,275,167
Granc	l Total				\$739,086,180		\$2,107,414,127

	COST ELEMENTS	UNIT	UNIT PRICE			Segments	
					[-5		5/1-8
					University	-	Town Center
	way Cost			Town	Center		ego Airport
Main		,		Unit	Unit Cost	Unit	Unit Cost
1	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	2	See Items 3-6
2	<u> </u>	km	N/A	40.5	See Items 3-6	14.5	See Items 3-6
3		m2	\$48	97262.2	\$4,711,147		\$1,689,058
4	Pavement-PCC	m2	\$65	194524.4	\$12,644,085		\$4,533,203
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0		\$04.130
6		m3	\$7	291786.6	\$1,908,212	104612.4	\$684,139
Othe			#30.000	26	4720 000	24	±400.000
2	Overhead Signs Drainage, Landscape, Signing, Signals, & Lighting	ea km	\$20,000 \$1,180,605	36 40.5	\$720,000 \$47,845,107		\$480,000 \$17,153,602
3		km	\$1,180,805	40.5	\$14,101,716		\$17,133,602
4	Miscellaneous Costs	km	\$559,234	40.5	\$22,663,472		\$8,125,390
5	City Street Relocation/Reconstruction	km	\$329,327	40.5	\$13,346,267		\$4,784,952
6	Removals	km	\$323,113	40.5	\$13,094,450		\$4,694,670
7	Surveillance, Control, & Communications	km	\$124,274	40.5	\$5,036,327		\$1,805,642
Inter	change (includes structure, right-of-wa	y, and m	obilization)		, , ,	<u>I</u>	, , ,
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	2	\$355,050,000	3	\$532,575,000
2	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	2	\$47,220,000	1	\$23,610,000
3	Urb Overcrossing Ramp Modification	ea	\$13,040,000	1	\$13,040,000	0	\$0
	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	0	\$0
5	Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0		\$0
6	Sub Overcrossing Full Interchange Replacement	ea	\$18,200,000	4	\$72,800,000		\$36,400,000
7	Sub Overcrossing Ramp Modification	ea	\$10,340,000	3	\$31,020,000		\$20,680,000
	3 3 1	ea	\$9,610,000	0	\$0		\$9,610,000
	J	ea	\$200,000	0	\$0	0	\$0
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	1 0	\$16,170,000
	Und Overcrossing Ramp Modification Und Overcrossing Bridge Replacement	ea ea	\$9,350,000 \$9,610,000	0	\$0 \$0		\$C \$C
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0 \$0		\$0
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	2	\$40,100,000		\$20,050,000
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	4	\$3,600,000		\$5,400,000
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000	6	\$88,950,000		\$74,125,000
	Sub Freeway Bridge Widening (No Interchange)	ea	\$900,000	2	\$1,800,000		\$1,800,000
	Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$0		\$0
19	Und Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	1	\$900,000
20	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$0		\$0
	Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$0	0	\$0
	y Relocation						
	Major Utility relocations - Urban	km	\$758,511	16.5	1 //		
	Major Utility relocations - Suburban	km	\$406,345	22.5			
	Major Utility relocations - Undeveloped	km	\$11,919	1.5	\$17,891	1.7	\$20,782
	t-of-Way Items (Interchange Right-of-V					,	
	Right-of-way - Urban	Hectares	\$3,499,093	11.9	\$41,595,824		\$14,641,939
	Right-of-way - Suburban	Hectares	\$1,166,364	16.2	\$18,907,193		
	Right-of-way - Undeveloped	Hectares	\$291,591	1.1	\$315,120	1.3	\$366,048
	onmental Mitigation			ı		T	
	vironmental Mitigation (3% of Construction Costs)				\$24,367,222		\$23,927,684
	ram Implementation Costs					1	
	ogram Implementation Costs (25.5% of Total Cost	and Procu	rement)		\$228,843,657		\$214,807,389
	ingencies						
Co	ntingencies (25% of Total Construction Cost)				\$224,356,526		\$210,595,480
Total	Construction				\$812,240,745		\$797,589,471
Total	Construction and Right of Way						
	des Environmental Mitigation)				\$897,426,104		\$842,381,919
	d Total				\$1,350,626,287		\$1,267,784,788
J. 4411					7-100010201201		7-1-0, 1, 0 1, 0

	COST ELEMENTS	UNIT	UNIT PRICE	Highway	Segments	
				•	[-8	
High	way Cost			SR-163 to I-5		
Main				Unit	Unit Cost	
	No. of additional lanes in both directions	ea	N/A	2	See Items 3-6	
-	Length of Highway	km	N/A	3.9	See Items 3-6	
	Pavement-AC	m2	\$48	9361.9	\$453,468	
4	Pavement-PCC	m2	\$65	18723.8	\$1,217,048	
5	Separate Aerial Structure	m2	\$1,346	0.0	\$0	
6	Earthwork	m3	\$7	28085.7	\$183,674	
Othe	r					
1		ea	\$20,000	6	\$120,000	
	Drainage, Landscape, Signing, Signals, & Lighting	km	\$1,180,605	3.9	\$4,605,299	
	Traffic Handling	km	\$347,968	3.9	\$1,357,351	
4		km	\$559,234	3.9	\$2,181,457	
	City Street Relocation/Reconstruction	km	\$329,327	3.9	\$1,284,636	
	Removals	km	\$323,113	3.9	\$1,260,398	
7	Surveillance, Control, & Communications change (includes structure, right-of-wa	km	\$124,274	3.9	\$484,768	
	Major Freeway to Freeway Interchanges	ea	\$177,525,000	1	\$177,525,000	
	Urb Overcrossing Full Interchange Replacement	ea	\$23,610,000	1	\$23,610,000	
	Urb Overcrossing Ramp Modification	ea	\$13,040,000	0	\$25,010,000	
4	Urb Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	
	Urb Overcrossing Bridge Modification	ea	\$200,000	0	\$0	
6	5 5	ea	\$18,200,000	0	\$0	
7	Sub Overcrossing Ramp Modification	ea	\$10,340,000	0	\$0	
8	Sub Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	
9	- · · · · · · · · · · · · · · · · · · ·	ea	\$200,000	0	\$0	
	Und Overcrossing Full Interchange Replacement	ea	\$16,170,000	0	\$0	
	Und Overcrossing Ramp Modification	ea	\$9,350,000	0	\$0	
	Und Overcrossing Bridge Replacement	ea	\$9,610,000	0	\$0	
	Und Overcrossing Bridge Modification	ea	\$200,000	0	\$0	
	Urb Undercrossing Freeway Widening & Ramp Mod	ea	\$20,050,000	2	\$40,100,000	
	Urb Freeway Bridge Widening (No Interchange)	ea	\$900,000	1	\$900,000	
	Sub Undercrossing Freeway Widening & Ramp Mod	ea	\$14,825,000 \$900,000	0	\$(\$(
	Sub Freeway Bridge Widening (No Interchange) Und Undercrossing Freeway Widening & Ramp Mod	ea	\$12,850,000	0	\$(
	Und Freeway Bridge Widening (No Interchange)	ea ea	\$900,000	2	\$1,800,000	
	Urb At-Grade Interchange Modification	ea	\$3,100,000	0	\$1,000,000	
	Sub At-Grade Interchange Modification	ea	\$3,100,000	0	\$(
	2 Und At-Grade Interchange Modification	ea	\$3,100,000	0	\$(
	y Relocation		40/200/000	-		
	Major Utility relocations - Urban	km	\$758,511	2.8	\$2,113,427	
	Major Utility relocations - Suburban	km	\$406,345	0.0	\$(
3	Major Utility relocations - Undeveloped	km	\$11,919	1.1	\$13,284	
Right	t-of-Way Items (Interchange Right-of-\	Nay cost	not included)			
	Right-of-way - Urban	Hectares	\$3,499,093	2.0	\$7,019,612	
2	Right-of-way - Suburban	Hectares	\$1,166,364	0.0	\$0	
3	Right-of-way - Undeveloped	Hectares	\$291,591	0.8	\$233,987	
Envir	onmental Mitigation					
En	vironmental Mitigation (3% of Construction Costs)				\$7,776,294	
Prog	ram Implementation Costs					
Pro	ogram Implementation Costs (25.5% of Total Cost	and Procui	rement)		\$69,931,125	
Cont	ingencies					
	ntingencies (25% of Total Construction Cost)				\$68,559,920	
	Construction				\$259,209,81	
	Construction and Right of Way				+==5/205/01	
	des Environmental Mitigation)				\$274,239,70	
	d Total				\$412,730,75	